

A five-year cumulative index for ANESTHESIOLOGY, 1980-1984, will be published early in 1985 as a supplement.

Index of Issues: July, pp. 1-118; August, pp. 119-234; September, pp. 235-354; October, pp. 355-486; November, pp. 487-642; December, 643-824.

SUBJECT INDEX TO VOLUME 61

Subject entries for all material in the JOURNAL appear in this index. The name of the author of an original article, in brackets, follows the subject entry. Entries from the JOURNAL departments are identified as follows: Book Reviews—(BR); Clinical Reports—(CR); Correspondence—(CO); Editorial Views—(EV); Laboratory Reports—(LR); Original Article—(OA); Review Article—(RA); Medical Intelligence—(MI); Special Article—(SA); Reports of Scientific Meetings—(SM).

A

Abdominal aorta, *See under* Arteries

Achondroplastic dwarf

migrating disc complicating spinal decompression in (CR) [McPherson, North, Udvarhelyi & Rosenbaum], 764

Acid-base equilibrium

acidosis

blood pH and brain uptake of ^{14}C -morphine in [Schulman, Kaufman, Eisenstein & Rapoport], 540

cardiac fiber action potential duration induced by, halothane diminishes changes in [Stowe, Bosnjak & Kampine], 245

alkalosis

blood pH and brain uptake of ^{14}C -morphine in [Schulman, Kaufman, Eisenstein & Rapoport], 540

cardiac fiber action potential duration induced by, halothane diminishes changes in [Stowe, Bosnjak & Kampine], 245

protein binding

of bupivacaine, influence of lactic acid on [Coyle, Denson, Thompson, Myers, Arthur & Bridenbaugh], 127

Acidosis, *See under* Acid-base equilibrium

ACTH, *See under* Hormones

Action potential, *See under* Heart

Adductor pollicis, *See under* Muscle, skeletal

Adenosine, *See under* Anesthetic techniques; Blood pressure; Pharmacology

Adrenergic nerve endings, *See under* Sympathetic nervous system

Aerobic metabolism, *See under* Cells

Age factors

anesthetic solubility

of volatile anesthetics in blood [Lerman, Gregory, Willis & Eger], 139

geriatrics

gender, and obesity, effect of, on midazolam kinetics [Greenblatt, Abernethy, Locniskar, Harmatz, Limjoco & Shader], 27

pharmacokinetics

of thiopental, in pediatric surgical patients [Sorbo, Hudson & Loomis], 666

Air embolism, *See under* Embolism

Airway

foreign body

as complication of lightwand-guided nasotracheal intubation (CR) [Stone, Stirt, Kaplan & McLean], 780

obstruction

in newborn, perioperative management of (CR) [Diaz, Stedman & LeTard], 608

tracheal, near total, temporary partial cardiopulmonary bypass during emergency management of (CR) [Wilson, Steiger, Jacobs, Sison & Holsey], 103

tracheobronchial tumors, anesthetic management during Nd-YAG

laser resection for (CO) [Vourc'h, Fischler, Personne, Colchen & Toty], 636

tracheobronchial tumors, anesthetic management during Nd-YAG

laser resection for (CO) [Warner, Warner & Leonard], 637

pharyngeal teratoma

in newborn, perioperative management of (CR) [Diaz, Stedman & LeTard], 608

tear

unusual presentation of (CR) [Freiberger], 204

Airway obstruction, *See under* Complications

Airway occlusion pressure, *See under* Ventilation

Aldosterone, *See under* Hormones

Alfentanil, *See under* Anesthetics, intravenous; Pharmacokinetics

Alkalosis, *See under* Acid-base equilibrium

Allergy

anaphylactoid reaction

to thiopental: false-positive RAST in patients with elevated serum IgE (CR) [Dueck & O'Connor], 337

asthma

and inhalational anesthesia and histamine release during bronchospasm [Hermans, Edelstein, Hanifin, Woodward & Hirshman], 69

protamine, management of patient with, for cardiac surgery (CR) [Campbell, Goldstein & Atkins], 761

Althesin, *See under* Anesthetics, intravenous

Aminophylline, *See under* Pharmacology

Analgesia

measurement

and CNS sensitivity to lidocaine, sensitivity to pain predicts (CR) [Korbon, Rowlingson & DiFazio], 767

Analgesia techniques

epidural morphine

in children (CR) [Shapiro, Jedeikin, Shalev & Hoffman], 210

Analgesics

desocine

ventilatory and analgesic effects of, in humans [Gal & DiFazio], 716

fentanyl

actions of, in relation to dose and plasma concentration in unanesthetized dogs [Arndt, Mikat & Parasher], 355

metabolites, identification and quantitative determination of, by gas chromatography-mass spectrometry (LR) [Goromaru, Matsuura, Yoshimura, Miyawaki, Sameshima, Miyao, Furuta & Baba], 73

postoperative, clinical advantages in, given epidurally (CR) [Lomessy, Magnin, Viale, Motin & Cohen], 466

methadone

in postoperative pain control, doses and blood concentration-response relationships [Gourlay, Willis & Wilson], 19

narcotic**morphine**

- blood pH and brain uptake of ^{14}C -morphine [Schulman, Kaufman, Eisenstein & Rapoport], 540
- effect on motor reaction threshold in rats, halothane antagonizes [Kissin & Jebels], 671
- epidural, in children (CR) [Shapiro, Jedeikin, Shalev & Hoffman], 210
- epidural and systemic, postthoracotomy pain and pulmonary function following [Shulman, Sandler, Bradley, Young & Brebner], 569
- in assessment of ventilatory and analgesic effects of dezocine in humans [Gal & DiFazio], 716
- respiratory depression and psychomotor effects caused by, physostigmine as antagonist of [Bourke, Rosenberg & Allen], 523
- respiratory effects of, after upper abdominal surgery [Clergue, Montembault, Despierres, Ghesquiere, Harari & Viars], 677

opioid

- in anesthesia, use in cardiovascular anesthesia (RA) [Bovill, Sebel & Stanley], 731

opioids

- intrathecal and epidural administration of (MI) [Cousins & Mather], 276

sufentanil

- effects of, on regional cerebral glucose utilization in rats [Young, Smith, Greenberg, Reivich & Harp], 564
- pharmacokinetics of, in surgical patients [Bovill, Sebel, Blackburn, Oei-Lim & Heykants], 502

Analyzers, See under Equipment**Anaphylactoid reaction, See under Allergy****Anemia, See under Blood****Anesthesia****cardiac**

- for pulmonary thromboendarterectomy (CR) [Brown, Bodary & Kirby], 197

cardiovascular

- for coronary artery bypass grafts, ECG changes with papaverine injection into (CO) [Mahomed, Moorthy, Brown & King], 350

- opioid analgesics in (RA) [Bovill, Sebel & Stanley], 731

dental

- and intraoperative death, did anesthetic mismanagement contribute to? (CO) [Sievenpiper & Fallacaro], 791
- and intraoperative death, did anesthetic mismanagement contribute to? (CO) [Johnson], 791

- and intraoperative death, did anesthetic mismanagement contribute to? (CO) [Marschall], 792

- and intraoperative death, did anesthetic mismanagement contribute to? (CO) [Giesecke & Hiley], 792

depth

- and recall of surgery for major trauma [Bogetz & Katz], 6
- awareness during surgery and (EV) [Blancher], 1
- effect of, on cardiac acceleration response to somatic nerve stimulation in dogs [Kissin & Green], 708

geriatric

- and solubility of volatile anesthetics in blood [Lerman, Gregory, Willis & Eger], 139

intravenous regional

- with lidocaine, sensitivity to pain predicts CNS sensitivity to (CR) [Korbon, Rowlingson & DiFazio], 767

neonatal

- and solubility of volatile anesthetics in blood [Lerman, Gregory, Willis & Eger], 139

neurosurgery

- and hypercoagulability in patient with brain tumor (CR) [Weinberg, Phillips, Twersky, Cottrell & Braunstein], 200

neurosurgical

- and comparison of effects of positive end-expiratory pressure and jugular venous compression on canine cerebral venous pressure [Toung, Ngew, Long, Rogers & Traystman], 169
- and paradox of paradoxical air embolism (CO) [Albin], 222
- and somatosensory evoked potential changes in position-related brain stem ischemia (CR) [McPherson, Szymanski & Rogers], 88

- high-dose methohexitol in, in humans, hemodynamic consequences of [Todd, Drummond & Sang], 495

- internal jugular vein function after Swan-Ganz catheterization in (CR) [Perkins, Cain, Bedford, Elinger & Buschi], 456

- isoflurane versus halothane in (CO) [Azar & Thiagarajah], 786

- isoflurane versus halothane in (CO) [Todd & Drummond], 787

- safety of sitting position in (CO) [Cucchiara], 790

obstetric

- and Bicitra® as preoperative antacid (CR) [Gibbs & Banner], 97
- and cause and prevention of maternal aspiration (CO) [Gibbs, Rolbin & Norman], 111

- and emergency equipment in labor suite (CO) [Boucek, Tyler, de la Vega & McKenzie], 478

- and intubation, aspiration prophylaxis in midtrimester abortions (CO) [Dehring & McDonald], 223

- and intubation, aspiration prophylaxis in midtrimester abortions (CO) [White], 224

- and postpartum perioperative risk of aspiration pneumonia (CR) [James, Gibbs & Banner], 756

- bupivacaine in, cardiotoxicity and (CO) [Conklin & Ziadlourad], 625

cesarean section

- anesthetic management for, in osteogenesis imperfecta (CR) [Cunningham, Donnelly & Comerford], 91

- does metoclopramide decrease volume of gastric contents in patients undergoing? (CR) [Cohen, Jasson, Talafre, Chauvelot-Moachon & Barrier], 604

- epinephrine with therapeutic dose of bupivacaine in (CO) [Albright], 217

- epinephrine with therapeutic dose of bupivacaine in (CO) [Marx], 218

- test doses for epidural anesthesia, use and abuse of (CO) [Abouleish & Bourke], 344

- test doses for epidural anesthesia, use and abuse of (CO) [Moore & Batra], 345

ophthalmologic

- for retinal surgery in prone position (CO) [Wollman & Neuman], 109

orthopedic

- hazards of laser degradation of methylmethacrylate during (CO) [Kroll, Morris & Norton], 115

outpatient

- and antiemetic efficacy of metoclopramide (CO) [Dundee], 229

- and intubation, aspiration prophylaxis in midtrimester abortions (CO) [Dehring & McDonald], 223

- and intubation, aspiration prophylaxis in midtrimester abortions (CO) [White], 224

- management of children for surgery (CO) [Beeby & Worthen], 638

pediatric

- and bright room light and retrobulbar fibroplasia (CO) [Flynn], 785

- and bright room light and retrobulbar fibroplasia (CO) [Wershauer], 785

and clinical pharmacology of edrophonium in infants and children [Fisher, Cronnelly, Sharma & Miller], 428
and effect of paralysis on oxygen consumption in normoxic children after cardiac surgery [Palmisano, Fisher, Willis, Gregory & Ebert], 518
and epidural morphine analgesia in children (CR) [Shapiro, Jedeikin, Shalev & Hoffman], 210
and respiratory depression following orally administered flunitrazepam for preanesthetic medication (CR) [Forster, Gamulin, Morel, Weiss & Rouge], 597
and small sample sizes (CO) [Lerman], 219
and solubility of volatile anesthetics in blood [Lerman, Gregory, Willis & Eger], 139
for high-dose total body irradiation in children (CR) [Lo, Buckley, Kim & Lopez], 101
inhibitory effect of intravenous *d*-tubocurarine and oral dantrolene on halothane-succinylcholine-induced myoglobinemia in (CR) [Asari, Inoue, Maruta & Hirose], 332
intraoperative hypoxia and hypotension during, caused by gas-trografin-induced hypovolemia (CR) [Maneksha, Betta, Zawin & Poppers], 454
management of children for surgery (CO) [Beeby & Worthen], 638
neonates and young infants, timolol and postoperative apnea in (CO) [Bailey], 622
perioperative management of newborn pharyngeal teratomas (CR) [Diaz, Stedman & LeTard], 608
personnel, hepatitis B markers in (CO) [Berry, Isaacson & Kane], 622
personnel, hepatitis B markers in (CO) [Friesen], 622
with thiopental, pharmacokinetics of [Sorbo, Hudson & Loomis], 666
retinal hemorrhage following (CR) [Bolder & Norton], 595
smoking and: preoperative abstinence and perioperative morbidity (MI) [Pearce & Jones], 576

thoracic

epidural and systemic morphine in, pain and pulmonary function following [Shulman, Sandler, Bradley, Young & Brebner], 569

Anesthesia machines, *See under Equipment*

Anesthesiologists

occupational hazards

hepatitis B markers in (CO) [Berry, Isaacson & Kane], 622
hepatitis B markers in (CO) [Friesen], 622

Anesthetics

gases

N_2O/O_2

clinical use of atracurium during (CR) [Ramsey, White, Stullken, Lineberry & Allen], 328

nitrous oxide

and excitatory/inhibitory responses of midbrain reticular neurons [Shimoji, Fujioka, Fukazawa, Hashiba & Maruyama], 151

baroreceptor reflex control of heart rate during, in humans [Kotryl, Ebert, Vucins, Roerig & Kampine], 558

effect of, on microbicidal activity of human polymorphonuclear leukocytes (LR) [Welch], 188

inactivates methionine synthetase activity in rat testis [Brodsky, Baden, Serra & Kundomal], 66

in prevention of hypoxic accidents (CO) [Eisenman], 624

in prevention of intraoperative myocardial ischemia during noncardiac surgery with intravenous nitroglycerin (CR) [Coriat, Daloz, Bousseau, Fuciardi, Echter & Viars], 193

in study of lung volume and VA/Q distribution response to intravenous versus inhalation anesthesia in sheep [Dueck, Rathbun & Greenburg], 55

or pentobarbital-treated rats, comparison of local rates of glucose utilization in spinal cord and brain in conscious and [Crosby, Crane & Sokoloff], 434

intravenous

alfentanil

in human serum, optimization of radioimmunoassays for measuring (LR) [Schüttler & White], 315

althesin

regional cerebral glucose utilization during anesthesia with [Davis, Hawkins, Mans, Hibbard & Biebuyck], 362

benzodiazepines

and polymorphonuclear leukocyte oxidative activity (CO) [Gelb], 632

and polymorphonuclear leukocyte oxidative activity (CO) [Goldfarb & Belghiti], 633

diazepam

baroreceptor reflex control of heart rate during, in humans [Kotryl, Ebert, Vucins, Roerig & Kampine], 558

etomidate

activation of epileptogenic activity of (CR) [Gancher, Laxer & Krieger], 616

as stress free: to be used or not to be used? (EV) [Longnecker], 643

effects of, on hormonal responses to surgical stress [Fragen, Shanks, Molteni & Avram], 652

inhibits adrenocortical function in surgical patients [Wagner & White], 647

fentanyl

and human brain-stem auditory evoked potentials [Samra, Lilly, Rush & Kirsh], 261

cardiovascular effects of ketamine given to relieve penile turgescence after (CR) [Roy], 610

clinical use of atracurium during (CR) [Ramsey, White, Stullken, Lineberry & Allen], 328

in human serum, optimization of radioimmunoassays for measuring (LR) [Schüttler & White], 315

in prevention of intraoperative myocardial ischemia during noncardiac surgery with intravenous nitroglycerin (CR) [Coriat, Daloz, Bousseau, Fuciardi, Echter & Viars], 193

metabolites, identification and quantitative determination of, by gas chromatography-mass spectrometry (LR) [Goromaru, Matsuura, Yoshimura, Miyawaki, Sameshima, Miyao, Furuta & Baba], 73

pancuronium anesthesia, failure of intravenous nitroglycerin to prevent intraoperative myocardial ischemia during [Thomson, Mutch & Culligan], 385

ketamine

cardiovascular effects of, given to relieve penile turgescence after high doses fentanyl (CR) [Roy], 610

for high-dose total body irradiation in children (CR) [Lo, Buckley, Kim & Lopez], 101

influence of, on regional hemodynamics in normal and hemorrhaged rats [Seyde & Longnecker], 686

methohexitol

high-dose, in humans, hemodynamic consequences of [Todd, Drummond & Sang], 495

rectally administered, severe histamine-mediated reaction to (CR) [Liu, Liu & Moss], 95

morphine

baroreceptor reflex control of heart rate during, in humans [Kotryl, Ebert, Vucins, Roerig & Kampine], 558

pancuronium

in prevention of intraoperative myocardial ischemia during noncardiac surgery with intravenous nitroglycerin (CR) [Coriat, Daloz, Bousseau, Fuciardi, Echter & Viars], 193

pentobarbital

- in study of effect of morphine on motor reaction threshold in rats [Kissin & Jebeles], 671
- in study of lung volume and VA/Q distribution response to intravenous versus inhalation anesthesia in sheep [Dueck, Rathbun & Greenburg], 55
- or nitrous oxide-treated rats, comparison of local rates of glucose utilization in spinal cord and brain in conscious and [Crosby, Crane & Sokoloff], 434

sufentanil

- effects of, on regional cerebral glucose utilization in rats [Young, Smith, Greenberg, Reivich & Harp], 564
- pharmacokinetics of, in surgical patients [Bovill, Sebel, Blackburn, Oei-Lim & Heykants], 502

thiamylal

- and excitatory/inhibitory responses of midbrain reticular neurons [Shimoji, Fujioka, Fukazawa, Hashiba & Maruyama], 151

thiopental

- and excitatory/inhibitory responses of midbrain reticular neurons [Shimoji, Fujioka, Fukazawa, Hashiba & Maruyama], 151
- and histamine release during bronchospasm [Hermens, Edelstein, Hanifin, Woodward & Hirshman], 69
- effects of, on hormonal responses to surgical stress [Fragen, Shanks, Molteni & Avram], 652
- false-positive RAST in patients with elevated serum IgE (CR) [Dueck & O'Connor], 337
- in study of adrenocortical function in surgical patients [Wagner & White], 647
- in study of etomidate for induction and supplementation of anesthesia (EV) [Longnecker], 643
- pharmacokinetics of, in pediatric surgical patients [Sorbo, Hudson & Loomis], 666

local

- and use and abuse of test doses of epidural anesthesia (CO) [Abouleish & Bourke], 344
- and use and abuse of test doses of epidural anesthesia (CO) [Moore & Batra], 345

bupivacaine

- cardiotoxicity or anesthetic technique? (CO) [Conklin & Ziadourad], 625
- cerebral and cardiac toxicity of, influence of serum potassium on [Avery, Redon, Schaefer & Rusy], 134
- epinephrine with, in obstetrics (CO) [Albright], 217
- epinephrine with, in obstetrics (CO) [Marx], 218
- in interscalene block, Todd's paralysis following (CR) [Collier & Engelking], 342
- serum protein binding of, influence of lactic acid on [Coyle, Denson, Thompson, Myers, Arthur & Bridenbaugh], 127
- toxicity and bier block (CO) [Moore], 782
- toxic reaction to, at low plasma concentration (CR) [Hasselstrom & Mogensen], 99

lidocaine

- block *in vitro*, diffusional delay in [Fink & Cairns], 555
- cerebral and cardiac toxicity of, influence of serum potassium on [Avery, Redon, Schaefer & Rusy], 134
- CNS sensitivity to, sensitivity to pain predicts (CR) [Korbon, Rowlingson & DiFazio], 767
- effect of, on ventilatory response to hypoxia [Gross, Caldwell, Shaw & Apfelbaum], 662
- subarachnoid, effects of, on spinal cord and cerebral blood flow in dogs [Dohi, Matsumiya, Takeshima & Naito], 238

prilocaine

- in study of site of action of intravenous regional anesthesia [Lillie, Glynn & Fenwick], 507

volatile**diethyl ether**

- as first anesthesia in military surgery (SA) [Aldrete, Marron & Wright], 585
- effects of, on light-induced proton uptake of rhodopsin in bovine rod outer segment disk membrane [Mashimo, Tashiro & Yoshiya], 439

development of, Joseph H. Simmons as pioneer in (CO) [Brown], 349

enflurane

- age and solubility of, in blood [Lerman, Gregory, Willis & Eger], 139
- antifibrillatory effects of, in acute occlusion/reperfusion arrhythmias (EV) [Lynch], 644
- antifibrillatory effects of, in acute occlusion/reperfusion arrhythmias [Kroll & Knight], 657
- cardiovascular responses to verapamil during, in comparative study in dog [Kapur, Bloor, Flacke & Olewine], 156
- clinical use of atracurium during (CR) [Ramsey, White, Stullken, Lineberry & Allen], 328
- does isoflurane preserve baroreflex responsiveness better than? (CO) [Roy], 482
- does isoflurane preserve baroreflex responsiveness better than? (CO) [Kotrla], 483
- effect of, on microbicidal activity of human polymorphonuclear leukocytes (LR) [Welch], 188
- effects of, and pressure on aerobic metabolism on monkey kidney cells [Brabec, Bedows, Davidson & Knight], 43
- effects of, on light-induced proton uptake of rhodopsin in bovine rod outer segment disk membrane [Mashimo, Tashiro & Yoshiya], 439
- effects of, on resistance to reabsorption of cerebrospinal fluid in dogs [Artru], 529
- influence of, on regional hemodynamics in normal and hemorrhaged rats [Seyde & Longnecker], 686
- in study of involvement of endotoxin in halothane-associated liver injury [Lind, Gandolfi, Sipes & Brown], 544
- is it hepatotoxic? (EV) [Dykes], 235

ether

- and excitatory/inhibitory responses of midbrain reticular neurons [Shimoji, Fujioka, Fukazawa, Hashiba & Maruyama], 151

failure of keyed agent-specific filling devices and (CO) [George], 228

halothane

- age and solubility of, in blood [Lerman, Gregory, Willis & Eger], 139
- and depressed breathing (EV) [Hornbein], 119
- and excitatory/inhibitory responses of midbrain reticular neurons [Shimoji, Fujioka, Fukazawa, Hashiba & Maruyama], 151
- and histamine release during bronchospasm [Hermens, Edelstein, Hanifin, Woodward & Hirshman], 69
- antagonizes effect of morphine on motor reaction threshold in rats [Kissin & Jebeles], 671
- antifibrillatory effects of, in acute occlusion/reperfusion arrhythmias (EV) [Lynch], 644
- antifibrillatory effects of, in acute occlusion/reperfusion arrhythmias [Kroll & Knight], 657
- cardiovascular responses to verapamil during, in comparative study in dog [Kapur, Bloor, Flacke & Olewine], 156
- changes in release and disposition of norepinephrine induced by, at adrenergic nerve endings, in dog saphenous vein [Lunn & Rorie], 377
- comparative cardiovascular effects of verapamil, nifedipine,

and diltiazem during, in swine [Kates, Zagg, Norfleet & Heath], 10

diminishes changes in cardiac fiber action potential duration induced by hypocapnia and hypercapnia [Stowe, Bosnjak & Kampine], 245

does isoflurane preserve baroreflex responsiveness better than? (CO) [Roy], 482

does isoflurane preserve baroreflex responsiveness better than? (CO) [Kotrlý], 483

effect of, on cardiac acceleration response to somatic nerve stimulation in dogs [Kissin & Green], 708

effects of, and pressure on aerobic metabolism on monkey kidney cells [Brabec, Bedows, Davidson & Knight], 43

effects of, on light-induced proton uptake of rhodopsin in bovine rod outer segment disk membrane [Mashimo, Tashiro & Yoshiya], 439

effects on ATP content and uridine uptake and phosphorylation in *Tetrahymena pyriformis* (LR) [Conklin & Lau], 78

hemodynamic consequences of, during chronic anemia [Barerra, Miletich, Albrecht & Hoffman], 36

in dental procedure, did anesthetic mismanagement contribute to intraoperative death? (CO) [Sievenpiper & Fallacaro], 791

in dental procedure, did anesthetic mismanagement contribute to intraoperative death? (CO) [Johnson], 791

in dental procedure, did anesthetic mismanagement contribute to intraoperative death? (CO) [Giesecke & Hille], 792

in dental procedure, did anesthetic mismanagement contribute to intraoperative death? (CO) [Marschall], 792

-induced depression of hypoxic respiratory drive, does almitrine restore? (CO) [Clergue & Derenne], 627

-induced depression of hypoxic respiratory drive, does almitrine restore? (CO) [Ward], 627

influence of, on regional hemodynamics in normal and hemorrhaged rats [Seyde & Longnecker], 686

in study of lung volume and VA/Q distribution response to intravenous versus inhalation anesthesia in sheep [Dueck, Rathbun & Greenburg], 55

in study of masseter spasm with anesthesia (CR) [Schwartz, Rockoff & Koka], 772

in study of relative hemodynamic effects of Ca^{++} entry blockers (EV) [Reves], 3

liver circulation and function during anesthesia with [Gelman, Fowler & Smith], 726

liver injury associated with, involvement of endotoxin in [Lind, Gandolfi, Sipes & Brown], 544

local versus central effect of, on carotid sinus baroreceptor function [Behnia & Koushanpour], 161

myoglobinemia induced by, in children, inhibitory effect of intravenous *d*-tubocurarine and oral dantrolene on (CR) [Asari, Inoue, Maruta & Hirose], 332

requirements during hand surgery, TENS reduces (CR) [Bourke, Smith, Erickson, Gwartz & Lessard], 769

site of selective action of, on peripheral chemoreflex pathways in humans [Knill & Clement], 121

versus isoflurane, in neurosurgical patients (CO) [Azar & Thagarajah], 786

versus isoflurane, in neurosurgical patients (CO) [Todd & Drummond], 787

isoflurane

age and solubility of, in blood [Lerman, Gregory, Willis & Eger], 139

and excitatory/inhibitory responses of midbrain reticular neurons [Shimoji, Fujioka, Fukazawa, Hashiba & Maruyama], 151

antifibrillatory effects of, in acute occlusion/reperfusion arrhythmias (EV) [Lynch], 644

antifibrillatory effects of, in acute occlusion/reperfusion arrhythmias [Kroll & Knight], 657

cardiovascular responses to verapamil during, in comparative study in dog [Kapur, Bloor, Flacke & Olewine], 156

complex effects of, on baroreceptor reflex (CO) [Boyce & Routman], 479

complex effects of, on baroreceptor reflex (CO) [Seagard], 480

does it preserve baroreflex responsiveness better than halothane or enflurane? (CO) [Roy], 482

does it preserve baroreflex responsiveness better than halothane or enflurane? (CO) [Kotrlý], 483

dogs anesthetized with, and conscious dogs, sympathetic effector nerve activity in [Seagard, Hoop, Bosnjak, Osborn & Kampine], 266

effect of, on microbial activity of human polymorphonuclear leukocytes (LR) [Welch], 188

effects of, and pressure on aerobic metabolism on monkey kidney cells [Brabec, Bedows, Davidson & Knight], 43

effects of, on resistance to reabsorption of cerebrospinal fluid in dogs [Artru], 529

influence of, on regional hemodynamics in normal and hemorrhaged rats [Seyde & Longnecker], 686

liver circulation and function during anesthesia with [Gelman, Fowler & Smith], 726

seizure associated with induction of anesthesia with (CR) [Poulton & Ellingson], 471

versus halothane, in neurosurgical patients (CO) [Azar & Thagarajah], 786

versus halothane, in neurosurgical patients (CO) [Todd & Drummond], 787

methoxyflurane

age and solubility of, in blood [Lerman, Gregory, Willis & Eger], 139

effects of, on light-induced proton uptake of rhodopsin in bovine rod outer segment disk membrane [Mashimo, Tashiro & Yoshiya], 439

Anesthetic solubility, See under Age factors

Anesthetic techniques

adenosine

controlled hypotension with, in cerebral aneurysm surgery [Sollevi, Lagerkranser, Irstedt, Gordon & Lindquist], 400

bronchoscopy

complication of (CO) [Siegel & Coleprate], 214

complications

unintentional removal of meningeal tissue with 25-gauge spinal needle (CR) [Scheller, Sarnat & Astarita], 593

continuous infusion

of etomidate, effects of, on hormonal responses in surgical stress [Fragen, Shanks, Molteni & Avram], 652

of etomidate, in study of adrenocortical function in surgical patients [Wagner & White], 647

electrical stimulation

reduces halothane requirements during hand surgery (CR) [Bourke, Smith, Erickson, Gwartz & Lessard], 769

epidural

and epinephrine with therapeutic dose of bupivacaine in obstetrics (CO) [Albright], 217

and epinephrine with therapeutic dose of bupivacaine in obstetrics (CO) [Marx], 218

bupivacaine in, cardiotoxicity or anesthetic technique? (CO) [Conklin & Ziadlourad], 625

fentanyl in, clinical advantages of, for postoperative analgesia (CR) [Lomessy, Magnin, Viale, Motin & Cohen], 466

for cesarean section in osteogenesis imperfecta (CR) [Cunningham, Donnelly & Comerford], 91

in administration of opioids (MI) [Cousins & Mather], 276

morphine

- postthoracotomy pain and pulmonary function following [Shulman, Sandler, Bradley, Young & Brebner], 569
- test doses for, use and abuse of (CO) [Abouleish & Bourke], 344
- test doses for, use and abuse of (CO) [Moore & Batra], 345

hypotension

- controlled**
 - with adenosine in cerebral aneurysm surgery [Sollevi, Lagerkranser, Irestedt, Gordon & Lindquist], 400
- induced**
 - nitroglycerin, methemoglobinemia, and respiratory distress in postoperative cardiac surgical patient (CR) [Zurick, Wagner, Starr, Lytle & Estafanous], 464
- nitroprusside**
 - nitroprusside, aminophylline potentiates, in dog [Pearl, Rosenthal, Murad & Ashton], 712
 - nitroprusside, topical use of, for relief of intraoperative arterial spasm (CR) [Mathews & Mote], 776
 - photodegradation of sodium nitroprusside in: biologic activity and cyanide release [Arnold, Longnecker & Epstein], 254

induction

- "crash," pretreatment and (CO) [Jenkins], 346

insufflation

- simple device for, with continuous positive airway pressure during one-lung ventilation (CO) [Brown & Davis], 481

interscalene

- Todd's paralysis following (CR) [Collier & Engelking], 342

intrathecal

- in administration of opioids (MI) [Cousins & Mather], 276

morphine

- respiratory effects of, after upper abdominal surgery [Clergue, Montembault, Despires, Ghesquiere, Harari & Viars], 677

intravenous

- "puff technique" for intravenous diazepam (CO) [Mark], 630

intravenous regional

- site of action of [Lillie, Glynn & Fenwick], 507

lumbar

- for cesarean section in osteogenesis imperfecta (CR) [Cunningham, Donnelly & Comerford], 91

rectal

- methohexitol in, severe histamine-mediated reaction to (CR) [Liu, Liu & Moss], 95

regional

- complications**
 - unintentional removal of meningeal tissue with 25-gauge spinal needle (CR) [Scheller, Sarnat & Astarita], 593
 - for cesarean section in osteogenesis imperfecta (CR) [Cunningham, Donnelly & Comerford], 91
- interscalene brachial plexus**
 - bronchospasm following (CR) [Thiagarajah, Lear, Azar, Salzer & Zeiligsohn], 759
- intravenous**
 - and bupivacaine and bier block (CO) [Moore], 782
 - monitoring respirations with gauze thread during (CO) [Moore], 623
- nerve block(s)**
 - multiple intercostal, in management of pain after thoracotomy (CO) [Restelli, Movilia, Bossi & Cairoli], 353
- retrobulbar block**
 - brain stem anesthesia following (CO) [Chang, Gonzalez-Abola, Larson & Lobes], 789

stellate

- for arterial insufficiency of arm in premature infants (CR) [Lagade & Poppers], 203

Todd's paralysis following (CR) [Collier & Engelking], 342

spinal

- and epidural blood patch, headache and (CO) [Sternick & Stirt], 548

complications

- unintentional removal of meningeal tissue with 25-gauge spinal needle (CR) [Scheller, Sarnat & Astarita], 593
- in idiopathic hypertrophic subaortic stenosis (CO) [Larson], 229
- lidocaine and phenylephrine in, effects of, on spinal cord and cerebral blood flow in dogs [Dohi, Matsumiya, Takeshima & Naito], 258

Antagonists**miscellaneous****physostigmine**

- effectiveness as antagonist of respiratory depression and psychomotor effects caused by morphine or diazepam [Bourke, Rosenberg & Allen], 523
- effect of, on diazepam-induced ventilatory depression [Spaulding, Choi, Gross, Apfelbaum & Broderson], 551

neuromuscular relaxants**edrophonium**

- clinical pharmacology of, in infants and children [Fisher, Cronnelly, Sharma & Miller], 428
- do not contribute to antagonism of neuromuscular blockade in dog [Hennis, Cronnelly, Sharma, Fisher & Miller], 534

neostigmine

- do not contribute to antagonism of neuromuscular blockade in dog [Hennis, Cronnelly, Sharma, Fisher & Miller], 534

pyridostigmine

- do not contribute to antagonism of neuromuscular blockade in dog [Hennis, Cronnelly, Sharma, Fisher & Miller], 534

Antiemetics, *See under* Vomiting**Antinociceptive effect, *See under* Pain****Apnea, *See under* Ventilation****Arrhythmias, *See under* Heart****Arterial catheters, *See under* Equipment****Arterial insufficiency, *See under* Complications****Arteries****abdominal aorta**

- and effects of infrarenal aortic cross-clamping on renal hemodynamics in humans [Gamulin, Forster, Morel, Simonet, Aymon & Favre], 394

brachial

- insufficiency of, in arm of premature infants, stellate ganglion block for (CR) [Lagade & Poppers], 203

cannulation

- of superficial temporal arteries, in adults (CO) [Brown, Gordon & Brown], 114
- percutaneous, using pressure-curve-directed technique (CO) [Kondo], 639

radial

- insufficiency of, in arm of premature infants, stellate ganglion block for (CR) [Lagade & Poppers], 203
- percutaneous cannulation of, using pressure-curve-directed technique (CO) [Kondo], 639

spasm

- intraoperative, topical use of sodium nitroprusside for relief of (CR) [Mathews & Mote], 776

superficial temporal

- cannulation, in adults (CO) [Brown, Gordon & Brown], 114

Arteriovenous malformation, *See under* Brain**Aspiration, *See under* Complications; Lung(s)**

Asthma, See under Allergy

Atracurium, See under Neuromuscular relaxants; Pharmacodynamics

Auditory evoked potentials, See under Brain; Monitoring

Autoradiography, See under Measurement techniques

Axon, See under Nerve(s)

B

Baroreceptor reflex, See under Blood pressure

Baroreceptors, See under Receptors; Reflexes

Baroreflexes, See under Blood pressure; Reflexes

Barotrauma, See under Complications

Benzodiazepines, See under Anesthetics, intravenous; Hypnotics

Beta-adrenergic blockers, See under Sympathetic nervous system

Binding of proteins, See under Acid-base equilibrium; Protein

Biotransformation

man

of fentanyl, by gas chromatography-mass spectrometry (LR) [Goromaru, Matsuura, Yoshimura, Miyawaki, Sameshima, Miyao, Furuta & Baba], 73

Biotransformation (drug)

midazolam

effect of age, gender, and obesity on [Greenblatt, Abernethy, Locrin, Harmatz, Limjoco & Shader], 27

Bleomycin, See under Toxicity

Blood

anemia

chronic, hemodynamic consequences of halothane anesthesia during [Barrera, Miletich, Albrecht & Hoffman], 36

coagulation

protamine

hypersensitivity, management of patient for cardiac surgery with (CR) [Campbell, Goldstein & Atkins], 761

coagulopathy

and emergency coronary artery bypass surgery following intracoronary streptokinase (CR) [Goldberg, Colonna-Romano & Babins], 601

flow

regional

anesthetic influences on, in normal and hemorrhaged rats [Seydel & Longnecker], 686

hypercoagulable state

in patient with brain tumor (CR) [Weinberg, Phillips, Twersky, Cottrell & Braunstein], 200

microbial function

of human polymorphonuclear leukocytes, effect of enflurane, isoflurane, and nitrous oxide on (LR) [Welch], 188

microbiocidal function

benzodiazepines and (CO) [Gelb], 632

benzodiazepines and (CO) [Goldfarb & Belghiti], 633

neutrophiles

benzodiazepines and (CO) [Gelb], 632

benzodiazepines and (CO) [Goldfarb & Belghiti], 633

partial thromboplastin time

and hypercoagulability in patient with brain tumor (CR) [Weinberg, Phillips, Twersky, Cottrell & Braunstein], 200

polymorphonuclear leukocytes

human, microbiocidal activity of, effect of enflurane, isoflurane, and nitrous oxide on (LR) [Welch], 188

Blood flow, See under Brain; Heart; Kidney; Lung(s); Spinal cord

Blood pressure

adenosine

controlled hypotension with, in cerebral aneurysm surgery [Sollevi, Lagerkranser, Irestedt, Gordon & Lindquist], 400

baroreceptor reflexes

complex effects of isoflurane on (CO) [Boyce & Routman], 479

complex effects of isoflurane on (CO) [Seagard], 480

control of heart rate during morphine sulfate, diazepam, N_2O /O₂ anesthesia in humans [Kotrlý, Ebert, Vucins, Roerig & Kampine], 558

does isoflurane preserve responsiveness of, better than halothane or enflurane? (CO) [Kotrlý], 483

does isoflurane preserve responsiveness of, better than halothane or enflurane? (CO) [Roy], 482

drug effects

and clinical pharmacology of edrophonium in infants and children [Fisher, Cronnelly, Sharma & Miller], 428

photodegradation of sodium nitroprusside in: biologic activity and cyanide release [Arnold, Longnecker & Epstein], 254

hypotension

controlled

with adenosine in cerebral aneurysm surgery [Sollevi, Lagerkranser, Irestedt, Gordon & Lindquist], 400

sodium nitroprusside-induced, aminophylline potentiates, in dog [Pearl, Rosenthal, Murad & Ashton], 712

regulation

and local versus central effect of halothane on carotid sinus baroreceptor function [Behnia & Koushanpour], 161

Blood solubility, See under Solubility

Book reviews

Chernow, B., and Lake, C. R. (eds.), *The Pharmacologic Approach to the Critically Ill Patient*, 793

George, R. B., Light, R. W., and Matthay, R. A., *Chest Medicine*, 233

Kruger, L., and Liebeskind, J. (eds.), *Advances in Pain Research and Therapy: Volume 6. Neural Mechanisms of Pain*, 793

Lebowitz, P. W., Newburg, L. A., and Gillette, M. T. (eds.), *Clinical Anesthesia Procedures of the Massachusetts General Hospital*, 118

Ledingham, I. M., and Hanning, C. D. (eds.), *Recent Advances in Critical Care Medicine*, 641

Mathieu, A. and Burke, J. F. (eds.), *Infection and the Perioperative Period*, 485

Nair, S., *Computers in Critical Care and Pulmonary Medicine—Volume III*, 486

Orkin, F. K., and Cooperman, L. H., *Complications in Anesthesiology*, 232

Pallot, D. J., *Control of Respiration*, 253

Ream, A. K. and Fogdall, R. P., *Acute Cardiovascular Management*, 485

Scheck, P. A., Sjostrand, U. H., and Smith, R. B., *Perspectives in High Frequency Ventilation*, 234

Slack, S. J., and DeKornfeld, T. J., *Anesthesiology, Continuing Education Review, Second Edition*, 118

Utley, J. R. (with 29 contributors), *The Pathophysiology and Techniques of Cardiopulmonary Bypass—Volume II*, 486

Vandam, L. D., *To Make the Patient Ready for Anesthesia: Medical Care of the Surgical Patient*, 232

Waldron, B. A., *Management of Epidural Analgesia in Childbirth*, 233

Brachial arteries, See under Arteries

Bradycardia, See under Complications

Brain

arteriovenous malformation

and hemodynamic consequences of high-dose methohexitol anesthesia in humans [Todd, Drummond & Sang], 495

auditory evoked potentials

human, fentanyl anesthesia and [Samra, Lilly, Rush & Kirsh], 261

blood-brain barrier

and blood pH and brain uptake of ¹⁴C-morphine [Schulman, Kaufman, Eisenstein & Rapoport], 540

blood flow

- effects of subarachnoid lidocaine and phenylephrine on, in dogs [Dohi, Matsumiya, Takeshima & Naito], 238
- in neurosurgical patients, and isoflurane versus halothane (CO) [Azar & Thiagarajah], 786
- in neurosurgical patients, and isoflurane versus halothane (CO) [Todd & Drummond], 787
- regional, during high-frequency positive-pressure ventilation (HFPPV) and intermittent positive-pressure ventilation (IPPV) [Bunegin, Smith, Sjostrand, Albin, Babinski, Heisel & Borg], 416

brain stem

- accidental anesthesia of, following retrobulbar block (CO) [Chang, Gonzalez-Abola, Larson & Lobe], 789

convulsions

- and effects of sufentanil, in rats [Young, Smith, Greenberg, Reivich & Harp], 564
- bupivacaine: cardiotoxicity or anesthetic technique? (CO) [Conklin & Ziadlourad], 625
- in high-dose methohexitol anesthesia in humans [Todd, Drummond & Sang], 495

electroencephalogram

- and hemodynamic consequences of high-dose methohexitol anesthesia in humans [Todd, Drummond & Sang], 495

electroencephalography

- in study of effects of sufentanil on regional cerebral glucose utilization in rats [Young, Smith, Greenberg, Reivich & Harp], 564

evoked potentials

- visual (VEP), in humans, effect of hypothermia on (CR) [Russ, Kling, Loesevitz & Hempelmann], 207

glucose utilization

- in, and in spinal cord, comparison of local rates of, in conscious and nitrous oxide- or pentobarbital-treated rats [Crosby, Crane & Sokoloff], 434

intracranial lesions

- response of patients with, to muscle relaxants (RA) [Azar], 173

intracranial pressure

- and effects of enflurane and isoflurane on resistance to reabsorption of cerebrospinal fluid in dogs [Artru], 529
- in neurosurgical patients, and isoflurane versus halothane (CO) [Azar & Thiagarajah], 786
- in neurosurgical patients, and isoflurane versus halothane (CO) [Todd & Drummond], 787

- perioperative diuresis and (CO) [Bagshaw, Smith, Bloom, Mitchell & Young], 107

- regional, during high-frequency positive-pressure ventilation (HFPPV) and intermittent positive-pressure ventilation (IPPV) [Bunegin, Smith, Sjostrand, Albin, Babinski, Heisel & Borg], 416

limbic system activation

- and effects of sufentanil, in rats [Young, Smith, Greenberg, Reivich & Harp], 564

metabolism**glucose**

- and effects of sufentanil, in rats [Young, Smith, Greenberg, Reivich & Harp], 564
- during althesin anesthesia [Davis, Hawkins, Mans, Hibbard & Biebuyck], 362
- in neurosurgical patients, and isoflurane versus halothane (CO) [Azar & Thiagarajah], 786
- in neurosurgical patients, and isoflurane versus halothane (CO) [Todd & Drummond], 787

regional

- in, and in spinal cord, comparison of local rates of, in conscious and nitrous oxide- or pentobarbital-treated rats [Crosby, Crane & Sokoloff], 434

midbrain reticular formation

- anesthetics and excitatory/inhibitory responses of [Shimoji, Fujioka, Fukazawa, Hashiba & Maruyama], 151

seizures

- doses of bupivacaine and lidocaine, influence of serum potassium on [Avery, Redon, Schaenzer & Rusy], 134

Brain stem, *See under* Brain**Breathing pattern, *See under* Ventilation****Bronchoscope, *See under* Equipment****Bronchoscopy, *See under* Anesthetic techniques****Bronchospasm, *See under* Complications; Lung(s)****Bupivacaine, *See under* Anesthetics, local****Burns, *See under* Complications****C****Calcium, *See under* Ions****Cannulation, *See under* Arteries; Veins****Carbon dioxide****hypercarbia**

- environment, and *milieu intérieur* (CO) [Smith], 628

measurement

- to verify intratracheal placement of breathing tube (CO) [Bashein & Cheney], 782

rebreathing

- environment, and *milieu intérieur* (CO) [Smith], 628

- inadvertent (CO) [Hornbein & Glauber], 115

steady state

- in study of effectiveness of physostigmine as antagonist of respiratory depression and psychomotor effects caused by morphine or diazepam [Bourke, Rosenberg & Allen], 523

ventilatory response

- and analgesic effects of dezocine in humans [Gal & DiFazio], 716

- effects of physostigmine on [Spaulding, Choi, Gross, Apfelbaum & Broderson], 551

- in study of effectiveness of physostigmine as antagonist of respiratory depression and psychomotor effects caused by morphine or diazepam [Bourke, Rosenberg & Allen], 523

Carbon dioxide production, *See under* Measurement techniques; Metabolism**Carbon dioxide response, *See under* Ventilation****Carbon dioxide tension, *See under* Ventilation****Carbon monoxide, *See under* Gases, nonanesthetic****Cardiac anesthesia, *See under* Anesthesia****Cardiac arrest, *See under* Complications****Cardiac conduction, *See under* Heart****Cardiac output, *See under* Heart****Cardiac shunt, *See under* Heart****Cardiac surgery, *See under* Surgery****Cardiopulmonary bypass, *See under* Surgery****Cardiovascular anesthesia, *See under* Anesthesia****Cardiovascular surgery, *See under* Surgery****Carotid blood flow monitoring, *See under* Monitoring****Carotid body receptors, *See under* Receptors****Carotid endarterectomy, *See under* Surgery****Catecholamines, *See under* Sympathetic nervous system****Catheters, *See under* Equipment; Monitoring****Cells****aerobic metabolism**

- effect of general anesthetics and pressure on, of monkey kidney cells [Brabec, Bedows, Davidson & Knight], 43

lactate production
effect of general anesthetics and pressure on, of monkey kidney cells [Brabec, Bedows, Davidson & Knight], 43

replication
uridine
halothane effects on, in *Tetrahymena pyriformis* (LR) [Conklin & Lau], 78

Cerebrospinal fluid
reabsorption production
in dogs, effects of enflurane and isoflurane on resistance to [Artru], 529

Cesarean section, *See under Anesthesia, obstetric*

Chemistry
fluorocarbons
pioneer in development of: Joseph H. Simmons (CO) [Brown], 349

Chemoreceptors, *See under Receptors*

Chernow, B., and Lake, C. R. (eds.)
The Pharmacologic Approach to the Critically Ill Patient (BR), 793

Chromatography, *See under Measurement techniques*

Cimetidine, *See under Pharmacology; Premedication*

Circuits, *See under Equipment*

Coagulopathy, *See under Blood*

CO₂ response, *See under Ventilation*

Compliance, *See under Lung(s)*

Complications
airway obstruction
in use of fiberoptic bronchoscope (CO) [Siegel & Coleprate], 214

arrest
cardiac
did anesthetic mismanagement contribute to intraoperative death from? (CO) [Sievenpiper & Fallacaro], 791

did anesthetic mismanagement contribute to intraoperative death from? (CO) [Johnson], 791

did anesthetic mismanagement contribute to intraoperative death from? (CO) [Giesecke & Hiley], 792

did anesthetic mismanagement contribute to intraoperative death from? (CO) [Marschall], 792

in bupivacaine toxicity and bier block (CO) [Moore], 782

aspiration
does metoclopramide decrease volume of gastric contents in patients undergoing cesarean section (CR) [Cohen, Jasson, Talafre, Chauvelot-Moachon & Barrier], 604

effectiveness of Bicitra® in prevention of (CR) [Gibbs & Banner], 97

iatrogenic airway foreign body (CO) [Hard & Nargozian], 786

maternal, cause and prevention of (CO) [Gibbs, Rolbin & Norman], 111

of piece of endotracheal tube (CO) [Harrington], 116

pneumonia, postpartum perioperative risk of (CR) [James, Gibbs & Banner], 756

preanesthetic cimetidine and metoclopramide for prevention of, in elective surgery [Manchikanti, Marrero & Roush], 48

prophylaxis in midtrimester abortions? (CO) [Dehring & McDonald], 223

prophylaxis in midtrimester abortions? (CO) [White], 224

barotrauma
pulmonary, demand valve improperly set resulting in (CR) [Banner & Boysen], 86

bradycardia
transesophageal pacing for (CR) [Backofen, Schauble & Rogers], 777

bronchospasm
following interscalene brachial plexus block (CR) [Thiagarajah, Lear, Azar, Salzer & Zeiligsohn], 759

burns
electrosurgical
at site of esophageal temperature probe (CR) [Parker], 93

convulsions
as reaction to bupivacaine at low plasma concentration (CR) [Hasselstrom & Mogensen], 99

associated with induction of anesthesia with (CR) [Poulton & Ellingson], 471

bupivacaine: cardiotoxicity or anesthetic technique? (CO) [Conklin & Ziadlourad], 625

in high-dose methohexitol anesthesia in humans [Todd, Drummond & Sang], 495

epidural hematoma
Mayfield skull clamp causing (CR) [Baerts, de Lange, Booij & Broere], 462

equipment
oxygen pressure sensor shutoff valve failure in Ohio® "wedge" anesthesia machine (CO) [Jones, Watson & Goetter], 634

oxygen pressure sensor shutoff valve failure in Ohio® "wedge" anesthesia machine (CO) [Luich], 635

equipment failure
flowmeter malfunction: effect on delivered anesthetic concentration (CO) [Doblar & Hinkle], 220

flowmeter malfunction: effect on delivered anesthetic concentration (CO) [Luich], 222

headache
postspinal, and epidural blood patch (CO) [Sternick & Stirt], 348

hemiparesis
following interscalene block (CR) [Collier & Engelking], 342

hemorrhage
during Nd-YAG laser resection for major tracheobronchial obstructing tumors (CO) [Vourc'h, Fischler, Personne, Colchen & Toty], 636

during Nd-YAG laser resection for major tracheobronchial obstructing tumors (CO) [Warner, Warner & Leonard], 637

hypotension
intraoperative, caused by gastrografin-induced hypovolemia (CR) [Maneksha, Betta, Zawin & Poppers], 454

hypovolemia
gastrografin-induced, intraoperative hypoxia and hypotension caused by (CR) [Maneksha, Betta, Zawin & Poppers], 454

hypoxia
can we do without O₂ analyzers? (CO) [Ditchik & Herr], 629

intraoperative, caused by gastrografin-induced hypovolemia (CR) [Maneksha, Betta, Zawin & Poppers], 454

insufficiency
of arm in premature infants, stellate ganglion block for (CR) [Lagade & Poppers], 203

internal jugular vein thrombosis
after Swan-Ganz catheterization (CR) [Perkins, Cail, Bedford, Ellinger & Busch], 456

methemoglobinemia
intravenous nitroglycerin, and respiratory distress in postoperative cardiac surgical patient (CR) [Zurick, Wagner, Starr, Lytle & Estafanous], 464

morbidity
perioperative, smoking and (MI) [Pearce & Jones], 576

myocardial infarction
and differences in reinfarction rates, due to differences in populations? (CO) [Rooke, Peterson, Faulhaber & Buffington], 213

and differences in reinfarction rates, due to differences in populations? (CO) [Rao], 214

perioperative, guidelines for randomized trials to determine incidence of (CO) [Morris], 213

myocardial ischemia
after coronary artery bypass surgery (CR) [Skarvan, Graedel, Hasse, Stulz & Pfisterer], 323

myoglobinemia
halothane-succinylcholine induced, inhibitory effect of intravenous *d*-tubocurarine and oral dantrolene on (CR) [Asari, Inoue, Maruta & Hirose], 332

obesity
age, and gender, effect of, on midazolam kinetics [Greenblatt, Abernethy, Locniskar, Harmatz, Limjoco & Shader], 27

penile turgescence
after high doses of fentanyl, cardiovascular effects of ketamine given to relieve (CR) [Roy], 610

pneumonitis
preanesthetic cimetidine and metoclopramide for prevention of, in elective surgery [Manchikanti, Marrero & Roush], 48

pulmonary artery catheters
in review of catheterization in 6,245 patients [Shah, Rao, Laughlin & El-Etr], 271

retinal hemorrhage
following anesthesia (CR) [Bolder & Norton], 595

seizures
and activation of epileptogenic activity of etomidate (CR) [Gancher, Laxer & Krieger], 616
and test doses of epidural anesthesia (CO) [Abouleish & Bourke], 344
and test doses of epidural anesthesia (CO) [Moore & Batra], 345 following interscalene block (CR) [Collier & Engelking], 342

thrombosis
of arm in premature infants, stellate ganglion block for (CR) [Lagade & Poppers], 203

Todd's paralysis
following interscalene block (CR) [Collier & Engelking], 342

trauma
major, recall of surgery for [Bogetz & Katz], 6

vomiting
preanesthetic cimetidine and metoclopramide for prevention of, in elective surgery [Manchikanti, Marrero & Roush], 48

Conduction, *See under Nerve(s)*

Continuous infusion, *See under Anesthetic techniques*

Continuous Performance Test, *See under Psychomotor function*

Continuous positive airway pressure, *See under Ventilation*

Continuous positive pressure, *See under Ventilation*

Contractility, muscular, *See under Muscle*

Controlled hypotension, *See under Anesthetic techniques; Blood pressure*

Controlled mechanical ventilation, *See under Ventilation*

Control of ventilation, *See under Ventilation*

Convulsions, *See under Brain; Complications; Toxicity*

Coronary arteries, *See under Heart*

Corticosteroids, *See under Hormones*

Cortisol, *See under Hormones*

Curare, *See under Neuromuscular relaxants, d-tubocurarine*

Curare test, regional, *See under Measurement techniques*

Cyclic GMP, *See under Pharmacology*

D

Dantrolene, *See under Neuromuscular relaxants*

Delivery systems, *See under Oxygen*

Demand valves, *See under Equipment*

Dental anesthesia, *See under Anesthesia*

Depth of anesthesia, *See under Anesthesia*

Desocine, *See under Analgesics*

Diazepam, *See under Anesthetics, intravenous; Hypnotics, benzodiazepines*

Diethyl ether, *See under Anesthetics, volatile*

Differential ventilation, *See under Ventilation*

Diffusion, *See under Pharmacokinetics*

Diltiazem, *See under Pharmacology*

Dipyridamole, *See under Pharmacology*

Diseases

renal failure
pharmacokinetics and pharmacodynamics of atracurium in patients with and without [Fahey, Rupp, Fisher, Miller, Sharma, Canfell, Castagnoli & Hennis], 699

Distribution of anesthetics, *See under Pharmacokinetics*

Diuresis, *See under Kidney*

Dobutamine, *See under Pharmacology*

Dopamine, *See under Pharmacology; Sympathetic nervous system, catecholamines*

Dropervidol, *See under Vomiting*

Drug interactions, *See under Interactions (drug)*

d-Tubocurarine, *See under Neuromuscular relaxants*

Dwarf, achondroplastic, *See under Achondroplastic dwarf*

E

Edema, *See under Lung(s)*

ED₅₀, *See under Potency, anesthetic*

Edrophonium, *See under Antagonists, neuromuscular relaxants*

Electrical stimulation, *See under Anesthetic techniques*

Electrocardiography, *See under Heart*

Electroencephalogram, *See under Brain*

Electroencephalography, *See under Brain; Monitoring*

Embolism

air
and comparison of effects of positive end-expiratory pressure and jugular venous compression on canine cerebral venous pressure [Toung, Ngeow, Long, Rogers & Traystman], 169

paradoxic, paradox of (CO) [Albin], 222

sitting position for neurosurgical procedures in prevention of (CO) [Cucchiara], 790

thromboembolism
pulmonary thromboendarterectomy in, anesthetic management of (CR) [Brown, Bodary & Kirby], 197

venous oxygen
hydrogen peroxide may cause (CO) [Shah, Pedemonte & Wilcock], 631

Emergency equipment, *See under Equipment*

EMMA, *See under Measurement techniques*

Endotoxin, *See under Toxicity*

Endotracheal intubation, *See under Intubation*

Enflurane, *See under Anesthetics, volatile*

Enzymes

methionine synthetase
activity in rat testis, nitrous oxide inactivates [Brodsky, Baden, Serra & Kundomal], 66

Epidural anesthesia, *See under Anesthetic techniques*

Epidural hematoma, *See under Complications*

Epidural morphine, *See under Analgesia techniques*

Epinephrine, *See under Sympathetic nervous system, catecholamines*

Equipment

airway
comments from experienced user of (CO) [Williams], 108
device for filtering mouth-to-mouth resuscitation (CO) [Cacchino], 638

analyzers
Engstrom EMMA, practical considerations in use of (CO) [Palayi & Evans], 112

bronchoscope
fiberoptic
complication of (CO) [Siegel & Coleprate], 214

catheters
arterial
and stellate ganglion block, for arterial insufficiency of arm in premature infants (CR) [Lagade & Poppers], 203

flow-directed
catheterization with, internal jugular vein function after (CR) [Perkins, Cail, Bedford, Elinger & Busch], 456

in balloon inflation *versus* impaction techniques, differences in pulmonary artery wedge pressures obtained by (CR) [Royster, Johnson, Prough, Johnston & Beamer], 339

inserted through external plastic shield, short-term sterility of (CR) [Johnston, Prough, Royster, Peacock, Gravlee, Mills & Cordell], 460

pulmonary artery
in review of catheterization in 6,245 patients [Shah, Rao, Laughlin & El-Etr], 271

occlusion-shake test for (CO) [DiNardo & Satwicz], 349

sheath malfunction with sternotomy (CO) [Noel], 634

Swan-Ganz
in balloon inflation *versus* impaction techniques, differences in pulmonary artery wedge pressures obtained by (CR) [Royster, Johnson, Prough, Johnston & Beamer], 339

inserted through external plastic shield, short-term sterility of (CR) [Johnston, Prough, Royster, Peacock, Gravlee, Mills & Cordell], 460

circuits
and simplified method of CPAP delivery to nonventilated lung during unilateral pulmonary ventilation (CO) [Lyons], 216

nonbreathing
environment, carbon dioxide, and milieu intérieur (CO) [Smith], 628

semiclosed
and inadvertent inspiration of carbon dioxide (CO) [Hornbein & Glauber], 115

demand valves
improperly set resulting in pulmonary barotrauma (CR) [Banner & Boysen], 86

emergency
in labor suite (CO) [Boucek, Tyler, de la Vega & McKenzie], 478

flowmeter
Foregger 705* malfunction resulting in loss of gas flow (CR) [From, George & Tinker], 321

in system for on-line analysis of $\dot{V}O_2$ and $\dot{V}CO_2$ for clinical applicability (LR) [Shimada, Yoshiya, Hirata, Takezawa & Taenaka], 311

gingival retraction cord
and intraoperative death, did anesthetic mismanagement contribute to? (CO) [Sievenpiper & Fallacaro], 791

and intraoperative death, did anesthetic mismanagement contribute to? (CO) [Johnson], 791

and intraoperative death, did anesthetic mismanagement contribute to? (CO) [Marschall], 792

and intraoperative death, did anesthetic mismanagement contribute to? (CO) [Giesecke & Hiley], 792

headrest
for retinal surgery in prone position (CO) [Wolman & Neuman], 109

infrared heat lamp
interferes with pulse oximeters (CO) [Brooks, Paulus & Winkle], 630

laryngoscope
fiberoptic
technique to facilitate use of (CO) [Wangler & Weaver], 111

laser
CO₂, degradation of methylmethacrylate (CO) [Kroll, Morris & Norton], 115

Nd-YAG, for major tracheobronchial obstructing tumors, anesthetic management during (CO) [Vourc'h, Fischler, Persson, Colchen & Toty], 636

Nd-YAG, for major tracheobronchial obstructing tumors, anesthetic management during (CO) [Warner, Warner & Leonard], 637

lightwand
nasotracheal intubation guided by, complication of (CR) [Stone, Stirt, Kaplan & McLean], 780

machine(s)
anesthesia
flowmeter malfunction: effect on delivered anesthetic concentration (CO) [Doblar & Hinkle], 220

flowmeter malfunction: effect on delivered anesthetic concentration (CO) [Luich], 222

Foregger 705* malfunction resulting in loss of gas flow (CR) [From, George & Tinker], 321

Ohio* "wedge", oxygen pressure sensor shutoff valve failure in (CO) [Jones, Watson & Goetter], 634

Ohio* "wedge", oxygen pressure sensor shutoff valve failure in (CO) [Luich], 635

mass spectrometer
in system for on-line analysis of $\dot{V}O_2$ and $\dot{V}CO_2$ for clinical applicability (LR) [Shimada, Yoshiya, Hirata, Takezawa & Taenaka], 311

Mayfield skull clamp
complications of (CR) [Baerts, de Lange, Booij & Broere], 462

nerve stimulators
and milliamperage requirements for supramaximal stimulation of ulnar nerve with surface electrodes (CR) [Kopman & Lawson], 83

oximeters
pulse, infrared heat lamp interferes with (CO) [Brooks, Paulus & Winkle], 630

oxygen analyzers
can we do without? (CO) [Ditchik & Herr], 629

oxygen insufflation device
for insufflation with continuous positive airway pressure during one-lung ventilation (CO) [Brown & Davis], 481

oxygen monitor
and case for monitoring oxygen in expiratory limb of circle (CO) [Meyer], 347

peripheral nerve stimulator
simple device for testing (CO) [Sarnat], 624

resuscitation
device for filtering mouth-to-mouth resuscitation (CO) [Caccamo], 638

sprays
airway foreign body from (CO) [Hard & Nargozian], 786

temperature probe
burns, at site of esophageal probe (CR) [Parker], 93

tubes
endotracheal
obstruction, unusual cause of (CO) [Harrington], 116

ultrasonic Doppler
and stellate ganglion block, for arterial insufficiency of arm in premature infants (CR) [Lagade & Poppers], 203

valves

and inadvertent inspiration of carbon dioxide (CO) [Hornbein & Glauber], 115

Björk-Shiley, acute intermittent obstruction of (CR) [Damen, Wever, Gherli, Hitchcock & Dion], 613

failure, in Ohio® "wedge" anesthesia machine (CO) [Jones, Watson & Goetter], 634

failure, in Ohio® "wedge" anesthesia machine (CO) [Luich], 635

vaporizers

and flow through copper kettle flowmeter (CO) [DesMarteau], 789

can we do without O₂ analyzers? (CO) [Ditchik & Herr], 629

failure of keyed agent-specific filling devices and (CO) [George], 228

ventilators

demand valves of, improperly set resulting in pulmonary barotrauma (CR) [Banner & Boysen], 86

Ether, *See under Anesthetics, volatile*

Etomide, *See under Anesthetics, intravenous*

Evoked potentials, *See under Brain; Monitoring*

Experimental pain, *See under Pain*

Eye**retrobulbar fibroplasia**

is bright room light related to? (CO) [Flynn], 785

is bright room light related to? (CO) [Warshauer], 785

Eye surgery, See under Surgery

F

Fentanyl, See under Analgesics; Anesthetics, intravenous; Pharmacodynamics

Fiberoptic bronchoscope, See under Equipment

Fiberoptic laryngoscope, See under Equipment

Fibrillation, See under Heart

Filtration, glomerular, See under Kidney

Flow-directed catheters, See under Equipment

Flowmeter, See under Equipment

Fluid balance

during CPPV after pulmonary microembolization [Noble & Kay], 703

Flunitrazepam, See under Premedication

Fluorocarbons, See under Chemistry

Foramen ovale, See under Heart

G

Gallamine, See under Neuromuscular relaxants

Gas chromatograph, See under Measurement techniques

Gases**nonanesthetic**

carbon monoxide, in cigarette smoke, and anesthesia (MI) [Pearce & Jones], 576

Gastric pH, See under Gastrointestinal tract

Gastric volume, See under Gastrointestinal tract

Gastrogastrostomy

hypovolemia induced by, intraoperative hypoxia and hypotension caused by (CR) [Maneksha, Betta, Zawin & Poppers], 454

Gastrointestinal tract

gastric pH

and preanesthetic cimetidine and metoclopramide for acid aspiration prophylaxis in elective surgery [Manchikanti, Marrero & Roush], 48

gastric volume

and preanesthetic cimetidine and metoclopramide for acid aspiration prophylaxis in elective surgery [Manchikanti, Marrero & Roush], 48

nausea

prophylaxis in midtrimester abortions? (CO) [Dehring & McDonald], 223

prophylaxis in midtrimester abortions? (CO) [White], 224

vomiting

preanesthetic cimetidine and metoclopramide for prevention of, in elective surgery [Manchikanti, Marrero & Roush], 48

prophylaxis in midtrimester abortions? (CO) [Dehring & McDonald], 223

prophylaxis in midtrimester abortions? (CO) [White], 224

George, R. B., Light, R. W., and Matthay, R. A.

Chest Medicine (BR), 233

Geriatric anesthesia, See under Anesthesia

Geriatrics, See under Age factors

Glucose, See under Brain

Glucose utilization, See under Brain; Spinal cord

H

Halothane, See under Anesthetics, volatile

Headache, See under Complications

Headrest, See under Equipment

Heart

action potential

halothane diminishes changes in, induced by hypoxia and hyperventilation [Stowe, Bosnjak & Kampine], 245

anesthetic response

in verapamil infusion during enflurane, isoflurane, or halothane anesthesia in dog [Kapur, Bloor, Flacke & Olewine], 156

arrhythmias

occlusion/reperfusion, antifibrillatory effects of volatile anesthetics in (EV) [Lynch], 644

occlusion/reperfusion, antifibrillatory effects of volatile anesthetics in [Kroll & Knight], 657

blood flow

in halothane anesthesia during chronic anemia [Barrera, Miletich, Albrecht & Hoffman], 36

cardiac conduction

effects of Ca⁺⁺ entry blockers on (EV) [Reves], 3

effects of verapamil, nifedipine, and diltiazem on, during halothane anesthesia in swine [Kates, Zaggy, Norfleet & Heath], 10

cardiac output

and diuretic properties of dopamine in patients after open-heart operation [Hilberman, Maseda, Stinson, Derby, Spencer, Miller, Oyer & Myers], 489

compromised, dopamine infusion in (EV) [Miller], 487

in halothane anesthesia during chronic anemia [Barrera, Miletich, Albrecht & Hoffman], 36

reduced, by CPPV after pulmonary microembolization [Noble & Kay], 703

congenital defects

and effect of paralysis on oxygen consumption in normoxic children after cardiac surgery [Palmisano, Fisher, Willis, Gregory & Ebert], 518

coronary arteries

bypass grafts, ECG changes with papaverine injection into (CO) [Mahomed, Moorthy, Brown & King], 350

coronary artery spasm

after coronary artery bypass surgery (CR) [Skarvan, Graedel, Hasse, Stulz & Pfisterer], 323

electrocardiography

in study of intravenous nitroglycerin and intraoperative myocardial ischemia during fentanyl-pancuronium anesthesia [Thomson, Mutch & Culligan], 385

fibrillation
and effects of volatile anesthetics in acute occlusion/reperfusion arrhythmias (EV) [Lynch], 644
and effects of volatile anesthetics in acute occlusion/reperfusion arrhythmias [Kroll & Knight], 657

foramen ovale
and paradox of paradox air embolism (CO) [Albin], 222

idiopathic hypertrophic subaortic stenosis
spinal anesthesia in (CO) [Larson], 229

intracoronary streptokinase
emergency coronary artery bypass surgery following (CR) [Goldberg, Colonna-Romano & Babins], 601

ischemia
and ECG changes with papaverine injection into coronary artery bypass grafts (CO) [Mahomed, Moorthy, Brown & King], 350
and effects of volatile anesthetics in acute occlusion/reperfusion arrhythmias (EV) [Lynch], 644
and effects of volatile anesthetics in acute occlusion/reperfusion arrhythmias [Kroll & Knight], 657

myocardial function
effects of Ca^{++} entry blockers on (EV) [Reves], 3
effects of verapamil, nifedipine, and diltiazem on, during halothane anesthesia in swine [Kates, Zaggy, Norfleet & Heath], 10
in high-dose methohexitol anesthesia in humans [Todd, Drummond & Sang], 495
in verapamil infusion during enflurane, isoflurane, or halothane anesthesia in dog [Kapur, Bloor, Flacke & Olewine], 156

myocardial infarction
and differences in reinfarction rates, due to differences in populations? (CO) [Rooke, Peterson, Faulhaber & Buffington], 213
and differences in reinfarction rates, due to differences in populations? (CO) [Rao], 214
perioperative, guidelines for randomized trials to determine incidence of (CO) [Morris], 213

myocardial ischemia
intraoperative, prevention of, during noncardiac surgery with intravenous nitroglycerin (CR) [Coriat, Daloz, Bousseau, Fuciardi, Echter & Viars], 193

nitroglycerin
intravenous, prevention of intraoperative myocardial ischemia during noncardiac surgery with (CR) [Coriat, Daloz, Bousseau, Fuciardi, Echter & Viars], 193

pulse rate
and clinical pharmacology of edrophonium in infants and children [Fisher, Cronnelly, Sharma & Miller], 428

rate response
to somatic nerve stimulation in dogs, effect of halothane on [Kissin & Green], 708

refractory period
halothane diminishes changes in, induced by hypocarbia and hypercarbia [Stowe, Bosnjak & Kampine], 245

shunt
and paradox of paradox air embolism (CO) [Albin], 222

transesophageal pacemaker
for bradycardia (CR) [Backofen, Schauble & Rogers], 777

Hemiparesis, See under Complications

Hemodynamics
pulmonary vascular resistance
effects of Ca^{++} entry blockers on (EV) [Reves], 3
effects of verapamil, nifedipine, and diltiazem on, during halothane anesthesia in swine [Kates, Zaggy, Norfleet & Heath], 10

regional blood flow
regional, during high-frequency positive-pressure ventilation (HFPPV) and intermittent positive-pressure ventilation (IPPV) [Bunegin, Smith, Sjostrand, Albin, Babinski, Heisel & Borg], 416

regional, in normal and hemorrhaged rats, anesthetic influences
on [Seyde & Longnecker], 686

systemic vascular resistance
effects of Ca^{++} entry blockers on (EV) [Reves], 3
effects of verapamil, nifedipine, and diltiazem on, during halothane anesthesia in swine [Kates, Zaggy, Norfleet & Heath], 10

Hemorrhage. See also under Complications
regional hemodynamics in, anesthetic influences on, in rats [Seyde & Longnecker], 686

Hemotoma, epidural, See under Complications

Hepatic toxicity, See under Toxicity

Hepatitis B, See under Infection; Liver

Hepatotoxicity, See under Liver

High frequency positive pressure ventilation (HFPPV), See under Ventilation

High frequency ventilation (HFV), See under Ventilation

Histamine
reaction mediated by, to rectally administered methohexitol (CR) [Liu, Liu & Moss], 95
release, inhalational anesthesia and, during bronchospasm [Hermens, Edelstein, Hanifin, Woodward & Hirshman], 69

History
development of fluorocarbons: Joseph H. Simmons as pioneer in (CO) [Brown], 349

diethyl ether
in military surgery (SA) [Aldrete, Marron & Wright], 585

military medicine
first administration of anesthesia in (SA) [Aldrete, Marron & Wright], 585

Holter monitoring, See under Monitoring

Hormones

ACTH
influence of etomidate on (EV) [Longnecker], 643
influence of etomidate on, in surgical patients [Wagner & White], 647
response of, to surgical stress, effects of etomidate on [Fragen, Shanks, Molteni & Avram], 652

aldosterone
influence of etomidate on (EV) [Longnecker], 643
influence of etomidate on, in surgical patients [Wagner & White], 647
response of, to surgical stress, effects of etomidate on [Fragen, Shanks, Molteni & Avram], 652

corticosteroids
effects of acute and chronic, on neuromuscular blockade in anesthetized cat [Durant, Briscoe & Katz], 144

cortisol
influence of etomidate on (EV) [Longnecker], 643
influence of etomidate on, in surgical patients [Wagner & White], 647
response of, to surgical stress, effects of etomidate on [Fragen, Shanks, Molteni & Avram], 652

Hypercarbia, See under Carbon dioxide

Hypercoagulable state, See under Blood

Hyperthermia
malignant
and masseter spasm with anesthesia (CR) [Schwartz, Rockoff & Koka], 772

low molecular weight proteins in, in humans (LR) [Blanck, Fisher, Thompson & Muldoon], 589

masticator spasm heralds (CO) [Badgwell & Heavner], 230

prophylactic and therapeutic doses of dantrolene for (CO) [Hinkle & Ruhland], 477

prophylactic and therapeutic doses of dantrolene for (CO) [Flewelling & Nelson], 477

Hypertrophic subaortic stenosis, *See under Heart*

Hypnotics

- benzodiazepines**
 - diazepam, intravenous, "puff technique" for (CO) [Mark], 630
 - respiratory depression and psychomotor effects caused by, phystostigmine as antagonist of [Bourke, Rosenberg & Allen], 523
- midazolam**
 - effect of age, gender, and obesity on [Greenblatt, Abernethy, Locrin, Harmatz, Limjoco & Shader], 27

Hypotension, *See under Anesthetic techniques; Blood pressure; Complications*

Hypothermia

- effect of, on visual evoked potentials (VEP) in humans (CR) [Russ, Kling, Loeseritz & Hempelmann], 207

Hypovolemia, *See under Complications*

Hypoxia. *See also under Complications*

- accidents, prevention of (CO) [Eisenman], 624
- can we do without O₂ analyzers? (CO) [Ditchik & Herr], 629
- ventilation**
 - drive, halothane-induced depression of, does almitrine restore? (CO) [Clergue & Derenne], 627
 - drive, halothane-induced depression of, does almitrine restore? (CO) [Ward], 627
 - ventilatory response to, effect of lidocaine infusion on [Gross, Caldwell, Shaw & Apfelbaum], 662

Hypoxic response, *See under Ventilation*

I

Induced hypotension, *See under Anesthetic techniques*

Induction

- anesthesia. *See also under Anesthetic techniques***
 - "crash," pretreatment and (CO) [Jenkins], 346

Infant(s), *See under Anesthesia, pediatric*

Infection

- hepatitis B**
 - markers in pediatric anesthesia personnel (CO) [Berry, Isaacson & Kane], 622
 - markers in pediatric anesthesia personnel (CO) [Friesen], 622

Infrared heat lamp, *See under Equipment*

Insufficiency, arterial, *See under Complications*

Insufflation, *See under Anesthetic techniques*

Interaction

- neuromuscular relaxants**
 - on indirectly elicited muscle twitch [Waud & Waud], 420

Interactions (drug)

- halothane antagonizes effect of morphine on motor reaction threshold in rats [Kissin & Jebel], 671

Intermittent positive-pressure ventilation (IPPV), *See under Ventilation*

Interscalene anesthesia, *See under Anesthetic techniques*

Interscalene brachial plexus, *See under Anesthetic techniques, regional*

Intracoronary streptokinase, *See under Heart*

Intracranial pressure, *See under Brain*

Intravenous regional anesthesia, *See under Anesthetic techniques*

J

Jugular vein thrombosis, *See under Complications*

Jugular veins, *See under Veins*

K

Ketamine, *See under Anesthetics, intravenous*

Kidney

- blood flow**
 - and diuretic properties of dopamine in patients after open-heart operation [Hilberman, Maseda, Stinson, Derby, Spencer, Miller, Oyer & Myers], 489
 - dopamine as influence on (EV) [Miller], 487

effects of infrarenal aortic cross-clamping on, in humans [Gamulin, Forster, Morel, Simonet, Aymon & Favre], 394

diuresis
and diuretic properties of dopamine in patients after open-heart operation [Hilberman, Maseda, Stinson, Derby, Spencer, Miller, Oyer & Myers], 489

dopamine as influence on (EV) [Miller], 487

perioperative, and ICP (CO) [Bagshaw, Smith, Bloom, Mitchell & Young], 107

filtration
effects of infrarenal aortic cross-clamping on, in humans [Gamulin, Forster, Morel, Simonet, Aymon & Favre], 394

function
and diuretic properties of dopamine in patients after open-heart operation [Hilberman, Maseda, Stinson, Derby, Spencer, Miller, Oyer & Myers], 489

dopamine as influence on (EV) [Miller], 487

effect of long-term controlled mechanical ventilation with positive end-expiratory pressure on, in dog [Berry, Geer, Marshall, Wu, Zbuzek & Marshall], 406

renal failure
pharmacokinetics and pharmacodynamics of atracurium in patients with and without [Fahey, Rupp, Fisher, Miller, Sharma, Canfell, Castagnoli & Hennis], 699

L

Labor suite, *See under* Operating rooms

Lactate production, *See under* Cells

Lactate, *See under* Metabolism

Laparoscopy, *See under* Surgery

Laryngoscope, *See under* Equipment

Laryngo-tracheal surgery, *See under* Surgery

Larynx
muscles
precurarization inhibits maximal ventilatory effort (CR) [Bruce, Downs, Kulkarni & Capan], 618

Laser, *See under* Equipment

Lebowitz, P. W., Newburg, L. A., and Gillette, M. T. (eds.)
Clinical Anesthesia Procedures of the Massachusetts General Hospital (BR), 118

Ledingham, I. M., and Hanning, C. D. (eds.)
Recent Advances in Critical Care Medicine (BR), 641

Leukocytes, *See under* Blood

Lidocaine, *See under* Anesthetics, local

Lightwand, *See under* Equipment

Limbic system activation, *See under* Brain

Liver
blood flow
during isoflurane and halothane anesthesia [Gelman, Fowler & Smith], 726

function
during isoflurane and halothane anesthesia [Gelman, Fowler & Smith], 726

hepatitis B
markers in pediatric anesthesia personnel (CO) [Berry, Isaacson & Kane], 622

markers in pediatric anesthesia personnel (CO) [Friesen], 622

hepatotoxicity
halothane-associated, involvement of endotoxin in [Lind, Gandomi, Sipes & Brown], 544

of enflurane? (EV) [Dykes], 235

Local anesthetics, *See under* Anesthetics

Lumbar anesthesia, *See under* Anesthetic techniques

Lung(s)
aspiration
effectiveness of Bicitra® in prevention of (CR) [Gibbs & Banner], 97

pneumonia, postpartum perioperative risk of (CR) [James, Gibbs & Banner], 756

blood flow
during differential ventilation with selective PEEP [Hedenstierna, Baehrndtz, Klingstedt, Santesson, Söderborg, Dahlborn & Bindslev], 369

bronchospasm
inhalational anesthesia and histamine release during [Hermens, Edelstein, Hanifin, Woodward & Hirshman], 69

compliance
and inhalational anesthesia and histamine release during bronchospasm [Hermens, Edelstein, Hanifin, Woodward & Hirshman], 69

edema
with fluid administration during CPPV after pulmonary microembolization [Noble & Kay], 703

lung volume
response to intravenous versus inhalation anesthesia in sheep [Dueck, Rathbun & Greenburg], 55

microemboli
lung water increases with fluid administration during CPPV after [Noble & Kay], 703

perfusion
in acute bilateral lung disease, differential ventilation and selective positive end-expiratory pressure effects on [Baehrndtz & Hedenstierna], 511

pulmonary function
following epidural and systemic morphine [Shulman, Sandler, Bradley, Young & Brebner], 569

respiratory distress
intravenous nitroglycerin, methemoglobinemia and, in postoperative cardiac surgical patient (CR) [Zurick, Wagner, Starr, Lytle & Estafanous], 464

respiratory distress syndrome
and restriction of oxygen in bleomycin-treated surgical patients (CO) [Goldiner & Rooney], 225

and restriction of oxygen in bleomycin-treated surgical patients (CO) [LaMantia, Glick & Marshall], 226

effects of differential ventilation and selective positive end-expiratory pressure on [Baehrndtz & Hedenstierna], 511

shunting
response to intravenous versus inhalation anesthesia in sheep [Dueck, Rathbun & Greenburg], 55

smoking
and anesthesia: preoperative abstinence and perioperative morbidity (MI) [Pearce & Jones], 576

Lung volume, *See under* Lung(s)

M

Machines, anesthesia, *See under* Equipment

MAC, *See under* Potency, anesthetic

Malignant hyperthermia, *See under* Hyperthermia

Masseter muscle, *See under* Muscle

Mass spectrometer, *See under* Equipment

Mass spectrometry, *See under* Measurement techniques

Mathieu, A. and Burke, J. F. (eds.)
Infection and the Perioperative Period (BR), 485

Measurement techniques**alfentanil**

radioimmunoassays in, optimization of, in human serum (LR) [Schüttler & White], 315

autoradiography

in assessment of effects of sufentanil on regional cerebral glucose utilization in rats [Young, Smith, Greenberg, Reivich & Harp], 564

carbon dioxide production

for on-line analysis of, for clinical applicability (LR) [Shimada, Yoshiya, Hirata, Takezawa & Taenaka], 311

chromatography**column**

in assessment of halothane-induced changes in release and disposition of norepinephrine at adrenergic nerve endings in dog saphenous vein [Lunn & Rorie], 377

liquid

in assessment of halothane-induced changes in release and disposition of norepinephrine at adrenergic nerve endings in dog saphenous vein [Lunn & Rorie], 377

EMMA

practical considerations in use of (CO) [Palayiwa & Evans], 112

fentanyl

radioimmunoassays in, optimization of, in human serum (LR) [Schüttler & White], 315

gas chromatography

identification and quantitative determination of fentanyl metabolites in patients by (LR) [Goromaru, Matsuura, Yoshimura, Miyawaki, Sameshima, Miyao, Furuta & Baba], 73

mass spectrometry

identification and quantitative determination of fentanyl metabolites in patients by (LR) [Goromaru, Matsuura, Yoshimura, Miyawaki, Sameshima, Miyao, Furuta & Baba], 73

microspheres

in assessment of anesthetic influences on regional hemodynamics in normal and hemorrhaged rats [Seyde & Longnecker], 686

neuromuscular blockade

and milliamperage requirements for supramaximal stimulation of ulnar nerve with surface electrodes (CR) [Kopman & Lawson], 83

oxygen consumption

for on-line analysis of, for clinical applicability (LR) [Shimada, Yoshiya, Hirata, Takezawa & Taenaka], 311

pressures

zero reference levels of, technique for establishing (CO) [Fernández-Cano], 478

radioimmunoassay

for measuring fentanyl and alfentanil in human serum, optimization of (LR) [Schüttler & White], 315

regional curare test

in diagnosis of myasthenia gravis (RA) [Azar], 173

Memory

awareness during surgery and (EV) [Blancher], 1
of surgery for major trauma [Bogetz & Katz], 6

Metabolism**carbon dioxide production**

and system for on-line analysis of, for clinical applicability (LR) [Shimada, Yoshiya, Hirata, Takezawa & Taenaka], 311

central nervous system

and cerebral metabolism, of glucose, in conscious and nitrous oxide- or pentobarbital-treated rats [Crosby, Crane & Sokoloff], 434

lactate

during controlled hypotension with adenosine in cerebral aneurysm surgery [Sollevi, Lagerkranser, Irestedt, Gordon & Lindquist], 400

metabolites**neostigmine**

do not contribute to antagonism of neuromuscular blockade in dog [Hennis, Cronnelly, Sharma, Fisher & Miller], 534

pyridostigmine

do not contribute to antagonism of neuromuscular blockade in dog [Hennis, Cronnelly, Sharma, Fisher & Miller], 534

oxygen consumption

and system for on-line analysis of, for clinical applicability (LR) [Shimada, Yoshiya, Hirata, Takezawa & Taenaka], 311

during controlled hypotension with adenosine in cerebral aneurysm surgery [Sollevi, Lagerkranser, Irestedt, Gordon & Lindquist], 400

RNA

halothane effects on, in *Tetrahymena pyriformis* (LR) [Conklin & Lau], 78

uridine

halothane effects on, in *Tetrahymena pyriformis* (LR) [Conklin & Lau], 78

Metabolism, of anesthetics, *See under Pharmacokinetics***Metabolism, *See also under Brain*****Metabolites, *See under Metabolism*****Methadone, *See under Analgesics; Pharmacology*****Methemoglobinemia, *See under Complications*****Methionine synthetase, *See under Enzymes*****Methohexitol, *See under Anesthetics, intravenous*****Methoxyflurane, *See under Anesthetics, volatile*****Methylmethacrylate, *See under Toxicity*****Metoclopramide, *See under Pharmacology; Premedication; Vomiting*****Metocurine, *See under Neuromuscular relaxants*****Microbial function, *See under Blood*****Microemboli, *See under Lung(s)*****Microspheres, *See under Measurement techniques*****Midazolam, *See under Biotransformation (drug); Hypnotics, benzodiazepines; Pharmacokinetics*****Midbrain reticular formation, *See under Brain*****Military medicine, *See under History*****Monitoring****auditory evoked potentials**

human, fentanyl anesthesia and [Samra, Lilly, Rush & Kirsh], 261

blood flow, carotid

and determination of shunt flow during carotid endarterectomy (CO) [Lindsey], 215

carbon dioxide

to verify intratracheal placement of breathing tube (CO) [Bashein & Cheney], 782

electroencephalography

in seizure associated with induction of anesthesia with isoflurane (CR) [Poulton & Ellingson], 471

Holter method

during noncardiac surgery with intravenous nitroglycerin (CR) [Coriat, Daloz, Bousseau, Fusciardi, Echter & Viars], 193

invasive

and differences in reinfarction rates, due to differences in populations? (CO) [Rooke, Peterson, Faulhaber & Buffington], 213

and differences in reinfarction rates, due to differences in populations? (CO) [Rao], 214

to determine incidence of perioperative myocardial infarction (CO) [Morris], 213

oxygen
in expiratory limb of circle, case for (CO) [Meyer], 347

perioperative
superficial temporal artery cannulation in, in adults (CO) [Brown, Gordon & Brown], 114

pressures
vascular
and occlusion-shake test for pulmonary artery catheters (CO) [DiNardo & Satwicz], 349
pulmonary artery catheter sheath malfunction with sternotomy (CO) [Noel], 634

pulmonary artery catheters
in review of catheterization in 6,245 patients [Shah, Rao, Laughlin & El-Etr], 271

pulmonary artery wedge pressure
differences in, obtained by balloon inflation versus impaction techniques (CR) [Royster, Johnson, Prough, Johnston & Beamer], 339

respirations
with gauze thread during regional anesthesia (CO) [Moore], 623

somatosensory
of spinal cord compression, and migrating disc complicating spinal decompression in achondroplastic dwarf (CR) [McPherson, North, Udvarhelyi & Rosenbaum], 764

somatosensory evoked potentials
changes in position-related brain stem ischemia (CR) [McPherson, Szymanski & Rogers], 88

visual evoked potentials
in humans, effect of hypothermia on (CR) [Russ, Kling, Loesevitz & Hempelmann], 207

Morbidity, *See under* Complications

Morphine, *See under* Analgesics, narcotics; Anesthetics intravenous; Anesthetic techniques, epidural; Anesthetic techniques, intrathecal

Muscle
lesions of
response of patients with, to muscle relaxants (RA) [Azar], 173

masseter
spasm
with anesthesia: incidence and implications (CR) [Schwartz, Rockoff & Koka], 772
spasm of, heralds malignant hyperthermia (CO) [Badgwell & Heavner], 230

skeletal
adductor pollicis
observations made in, may not be applicable to other muscle groups (CO) [Weber], 353

contractility
and site of action of verapamil (CO) [Durant, Nguyen & Katz], 784
and site of action of verapamil (CO) [Foldes], 783
malignant hyperthermic human, low molecular weight proteins in (LR) [Blank, Fisher, Thompson & Muldoon], 589

spasm
masseter, heralds malignant hyperthermia (CO) [Badgwell & Heavner], 230

Muscle relaxants, *See under* Neuromuscular relaxants

Myocardial function, *See under* Heart

Myocardial infarction, *See under* Complications; Heart

Myocardial ischemia, *See under* Complications; Heart

Myoglobinemia, *See under* Complications

N

Nair, S.
Computers in Critical Care and Pulmonary Medicine—Volume III (BR),
486

Nasotracheal intubation, *See under* Intubation

Neonatal anesthesia, *See under* Anesthesia

Neonate(s), *See under* Anesthesia, pediatric

Neostigmine, *See under* Antagonists, neuromuscular relaxants

Nerve blocks, *See under* Anesthetic techniques, regional

Nerve damage, *See under* Position

Nerve(s)
activity
recording
in conscious and isoflurane-anesthetized dogs [Seagard, Hoop, Bosnjak, Osborn & Kampine], 266

axon
and diffusional delay in local anesthetic block *in vitro* [Fink & Cairns], 555

conduction
and diffusional delay in local anesthetic block *in vitro* [Fink & Cairns], 555

peripheral
lesions of
response of patients with, to muscle relaxants (RA) [Azar], 173

Nerve stimulators, *See under* Equipment

Neuromuscular blockade, *See under* Measurement techniques

Neuromuscular junction
lesions of
response of patients with, to muscle relaxants (RA) [Azar], 173

Neuromuscular relaxants
action of, on adductor pollicis, may not be applicable to other muscle groups (CO) [Weber], 353

atracurium
administered by infusion, stability of (CO) [Fisher, Cantell & Miller], 347

clinical pharmacology of (RA) [Miller, Rupp, Fisher, Cronnelly, Fahey & Sohn], 444

clinical use of, during N_2O/O_2 , fentanyl, and enflurane anesthesia regimens (CR) [Ramsey, White, Stullken, Lineberry & Allen], 328

in patients with and without renal failure [Fahey, Rupp, Fisher, Miller, Sharma, Canfell, Castagnoli & Hennis], 699

dantrolene
inhibitory effect of, on halothane-succinylcholine-induced myoglobinemia in children (CR) [Asari, Inoue, Maruta & Hirose], 332

prophylactic and therapeutic doses of, for malignant hyperthermia (CO) [Hinkle & Ruhland], 477

prophylactic and therapeutic doses of, for malignant hyperthermia (CO) [Flewellen & Nelson], 477

gallamine
and other neuromuscular blocking agents, interaction of, on indirectly elicited muscle twitch [Waud & Waud], 420

metocurine
and other neuromuscular blocking agents, interaction of, on indirectly elicited muscle twitch [Waud & Waud], 420

pancuronium
and other neuromuscular blocking agents, interaction of, on indirectly elicited muscle twitch [Waud & Waud], 420

effects of acute and chronic hydrocortisone treatment on, in anesthetized cat [Durant, Briscoe & Katz], 144

effects of, on oxygen consumption in normoxic children after cardiac surgery [Palmisano, Fisher, Willis, Gregory & Ebert], 518

-fentanyl anesthesia, failure of intravenous nitroglycerin to prevent intraoperative myocardial ischemia during [Thomson, Mutch & Culligan], 385

in study of lung volume and VA/Q distribution response to intravenous versus inhalation anesthesia in sheep [Dueck, Rathbun & Greenburg], 55

potentiation of effect of, on skeletal muscle (CO) [Foldes], 783
 potentiation of effect of, on skeletal muscle (CO) [Durant, Nguyen & Katz], 784
 response of patients with neuromuscular disorders to (RA) [Azar], 173
succinylcholine
 effects of acute and chronic hydrocortisone treatment on, in anesthetized cat [Durant, Briscoe & Katz], 144
 increase in serum potassium following, in dogs with beta blockade [McCammon & Stoeling], 723
 masseter spasm following (CR) [Schwartz, Rockoff & Koka], 772
 myoglobinemia induced by, in children, inhibitory effect of intravenous *d*-tubocurarine and oral dantrolene on (CR) [Asari, Inoue, Maruta & Hirose], 332
 pretreatment and "crash" induction (CO) [Jenkins], 346
vecuronium
 clinical pharmacology of (RA) [Miller, Rupp, Fisher, Cronnelly, Fahey & Sohn], 444
d-tubocurarine
 and other neuromuscular blocking agents, interaction of, on indirectly elicited muscle twitch [Waud & Waud], 420
 inhibitory effect of, on halothane-succinylcholine-induced myoglobinemia in children (CR) [Asari, Inoue, Maruta & Hirose], 332
 precurarization inhibits maximal ventilatory effort (CR) [Bruce, Downs, Kulkarni & Capan], 618
Neurosurgery, See under Surgery
Neurosurgical anesthesia, See under Anesthesia
Neurotransmitters
 and halothane-induced changes in release and disposition of norepinephrine at adrenergic nerve endings in dog saphenous vein [Lunn & Rorie], 377
Neutrophiles, See under Blood
Nifedipine, See under Pharmacology
Nitroglycerin, See under Anesthetic techniques, hypotension, induced; Heart
Nitroprusside, See under Anesthetic techniques, hypotension, induced; Pharmacology; Toxicity
Nitrous oxide, See under Anesthetics, gases
Noncardiac surgery, See under Surgery
Nonbreathing circuits, See under Equipment
Norepinephrine, See under Sympathetic nervous system, catecholamines

O

Obesity, See under Complications
Obstetric anesthesia, See under Anesthesia
Obstetrics, See under Anesthesia, obstetric
Obstruction of airway, See under Airway
Occupational hazards, See under Anesthesiologists
One-lung ventilation, See under Ventilation
Operating rooms
 labor suite
 emergency equipment in (CO) [Boucek, Tyler, de la Vega & McKenzie], 478
Ophthalmologic anesthesia, See under Anesthesia
Opioids, See under Analgesics, narcotic
Orkin, F. K., and Cooperman, L. H.
Complications in Anesthesiology (BR), 232
Orthopedic anesthesia, See under Anesthesia
Osteogenesis imperfecta
 anesthetic management in cesarean section (CR) [Cunningham, Donnelly & Comerford], 91
Outpatient anesthesia, See under Anesthesia
Oximeters, See under Equipment

Oxygen
consumption. See also under Measurement techniques; Metabolism
 effect of paralysis on, in normoxic children after cardiac surgery [Palmisano, Fisher, Willis, Gregory & Ebert], 518
delivery systems
 and prevention of hypoxic accidents (CO) [Eisenman], 624
 continuous, during nasotracheal intubation (CO) [Goldman & McDonald], 352
toxicity
 and restriction of oxygen in bleomycin-treated surgical patients (CO) [Goldiner & Rooney], 225
 and restriction of oxygen in bleomycin-treated surgical patients (CO) [LaMantia, Glick & Marshall], 226
 and retrorenal fibroplasia, is bright light related to? (CO) [Flynn], 785
 and retrorenal fibroplasia, is bright light related to? (CO) [Wershauer], 785
Oxygen analyzers, See under Equipment
Oxygen insufflation device, See under Equipment
Oxygen monitor, See under Equipment
Oxygen tension, See under Ventilation

P

Pacemaker, See under Heart
Pain
antinociceptive
 and motor reaction threshold in rats, halothane antagonists effect of morphine [Kissin & Jebel], 671
experimental
 and ventilatory and analgesics effects of dezocine in humans [Gal & DiFazio], 716
 sensitivity to, predicts CNS sensitivity to lidocaine (CR) [Korbon, Rowlingson & DiFazio], 767
 management of, after thoracotomy: technique of multiple intercostal nerve blocks (CO) [Restelli, Movilia, Bossi & Cairoli], 353
measurement
 and ventilatory and analgesics effects of dezocine in humans [Gal & DiFazio], 716
 in study of TENS and halothane requirements during hand surgery (CR) [Bourke, Smith, Erickson, Gwartz & Lessard], 769
postoperative
 and pulmonary function following epidural and systemic morphine [Shulman, Sandler, Bradley, Young & Brebner], 569
 clinical advantages of fentanyl given epidurally (CR) [Lomessy, Magnin, Viale, Motin & Cohen], 466
 control with methadone [Gourlay, Willis & Wilson], 19
 epidural morphine analgesia, in, in children (CR) [Shapiro, Jedeikin, Shalev & Hoffman], 210
 intrathecal morphine after upper abdominal surgery [Clergue, Montembault, Despiers, Ghesquiere, Harari & Viars], 677
Pallot, D. J.
Control of Respiration (BR), 233
Pancuronium, See under Anesthetics, intravenous; Neuromuscular relaxants
Partial thromboplastin time, See under Blood
Partition coefficient, See under Solubility
Pediatric anesthesia, See under Anesthesia
Pediatric patients, See under Anesthesia
PEEP, See under Ventilation
Penile turgescence, See under Complications
Pentobarbital, See under Anesthetics, intravenous
Perfusion, See under Lung(s); Ventilation
Perioperative monitoring, See under Monitoring
Peripheral nerve stimulator, See under Equipment

Pharmacodynamics

atracurium

in patients with and without renal failure [Fahey, Rupp, Fisher, Miller, Sharma, Canfell, Castagnoli & Hennis], 699

fenfluryl

in relation to dose and plasma concentration in unanesthetized dogs [Arndt, Mikat & Parasher], 355

methadone

in postoperative pain control, doses and blood concentration-response relationships [Gourlay, Willis & Wilson], 19

Pharmacokinetics

atracurium besylate

in patients with and without renal failure [Fahey, Rupp, Fisher, Miller, Sharma, Canfell, Castagnoli & Hennis], 699

diffusion

delay in local anesthetic block *in vitro* [Fink & Cairns], 555

distribution

pediatrics

of thiopental, during surgery [Sorbo, Hudson & Loomis], 666

edrophonium

clinical pharmacology of, in infants and children [Fisher, Cronnelly, Sharma & Miller], 428

laudanosine

and pharmacokinetics and pharmacodynamics of atracurium in patients with and without renal failure [Fahey, Rupp, Fisher, Miller, Sharma, Canfell, Castagnoli & Hennis], 699

metabolism

pediatrics

of thiopental, during surgery [Sorbo, Hudson & Loomis], 666

midazolam

effect of age, gender, and obesity on [Greenblatt, Abernethy, Locrisar, Harmatz, Limjoco & Shader], 27

morphine

blood pH and brain uptake of ¹⁴C-morphine [Schulman, Kaufman, Eisenstein & Rapoport], 540

neostigmine and pyridostigmine, and antagonism of neuromuscular blockade in dog [Hennis, Cronnelly, Sharma, Fisher & Miller], 534

sufentanil

in surgical patients [Bovill, Sebel, Blackburn, Oei-Lim & Heykants], 502

variables in: what should be published? (CO) [Hug & Stanski], 106

variables in: what should be published? (CO) [Kopman], 106

Pharmacology

adenosine

during controlled hypotension with, in cerebral aneurysm surgery [Sollevi, Lagerkranser, Irestedt, Gordon & Lindquist], 400

almitrine

does it restore halothane-induced depression of hypoxic respiratory drive (CO) [Clergue & Derenne], 627

does it restore halothane-induced depression of hypoxic respiratory drive? (CO) [Ward], 627

aminophylline

potentiates sodium nitroprusside-induced hypotension in dog [Pearl, Rosenthal, Murad & Ashton], 712

cimetidine

for acid aspiration prophylaxis in elective surgery [Manchikanti, Marrero & Roush], 48

clinical, of vecuronium and atracurium (RA) [Miller, Rupp, Fisher, Cronnelly, Fahey & Sohn], 444

cyclic GMP

effect of sodium nitroprusside-induced hypotension on, in dog [Pearl, Rosenthal, Murad & Ashton], 712

diltiazem

and cardiovascular effects of, during halothane anesthesia in swine [Kates, Zaggy, Norfleet & Heath], 10

in study of relative hemodynamic effects of Ca^{++} entry blockers (EV) [Reves], 3

dipyridamole

during controlled hypotension with adenosine in cerebral aneurysm surgery [Sollevi, Lagerkranser, Irestedt, Gordon & Lindquist], 400

dobutamine

diuretic properties of, in patients after open-heart operation [Hilberman, Maseda, Stinson, Derby, Spencer, Miller, Oyer & Myers], 489

renal effects of (EV) [Miller], 487

dopamine

diuretic properties of, in patients after open-heart operation [Hilberman, Maseda, Stinson, Derby, Spencer, Miller, Oyer & Myers], 489

renal effects of (EV) [Miller], 487

hydrogen peroxide

may cause venous oxygen embolism (CO) [Shah, Pedemonte & Wilcock], 631

metoclopramide

does it decrease volume of gastric contents in patients undergoing cesarean section (CR) [Cohen, Jasson, Talafre, Chauvelot-Moachon & Barrier], 604

for acid aspiration prophylaxis in elective surgery [Manchikanti, Marrero & Roush], 48

nifedipine

and cardiovascular effects of, during halothane anesthesia in swine [Kates, Zaggy, Norfleet & Heath], 10

in study of relative hemodynamic effects of Ca^{++} entry blockers (EV) [Reves], 3

nitroprusside

aminophylline potentiates, in dog [Pearl, Rosenthal, Murad & Ashton], 712

and photodegradation of: biologic activity and cyanide release [Arnold, Longnecker & Epstein], 254

verapamil

and cardiovascular effects of, during halothane anesthesia in swine [Kates, Zaggy, Norfleet & Heath], 10

and site of action of (CO) [Durant, Nguyen & Katz], 784

and site of action of (CO) [Foldes], 783

comparison of cardiovascular responses to, during enflurane, isoflurane, or halothane anesthesia in dog [Kapur, Bloor, Flacke & Olewine], 156

in study of relative hemodynamic effects of Ca^{++} entry blockers (EV) [Reves], 3

Pharyngeal teratoma, See under Airway

Phenylephrine, See under Sympathetic nervous system

Physostigmine, See under Antagonists, miscellaneous

Pneumonitis, See under Complications

Polymorphonuclear leukocytes, See under Blood

Position

nerve damage

somatosensory evoked potential changes in (CR) [McPherson, Szymanski & Rogers], 88

prone

retinal surgery in, inexpensive simple headrest for (CO) [Wollman & Neuman], 109

sitting

and comparison of effects of positive end-expiratory pressure and jugular venous compression on canine cerebral venous pressure [Toung, Ngew, Long, Rogers & Traystman], 169

safety of, in neurosurgery (CO) [Cucchiara], 790

skin damage

prevention of, in securing arms to armboards (CO) [Sternick & Stirt], 113

Positive end-expiratory pressure, See under Ventilation

Postoperative pain, *See under* Pain

Potassium, *See under* Ions

Potency

anesthetic

ED₅₀

in study of TENS and halothane requirements during hand surgery (CR) [Bourke, Smith, Erickson, Gwartz & Lessard], 769

MAC

and effect of halothane on cardiac acceleration response to somatic nerve stimulation in dogs [Kissin & Green], 708
in study of TENS and halothane requirements during hand surgery (CR) [Bourke, Smith, Erickson, Gwartz & Lessard], 769

Pregnancy

and intubation, aspiration prophylaxis in midtrimester abortions? (CO) [Dehring & McDonald], 223
and intubation, aspiration prophylaxis in midtrimester abortions? (CO) [White], 224

Premedication

cimetidine

for acid aspiration prophylaxis in elective surgery [Manchikanti, Marrero & Roush], 48

flunitrazepam

orally administered to children, respiratory depression following (CR) [Forster, Gamulin, Morel, Weiss & Rouge], 597
in management of children for surgery (CO) [Beeby & Worthen], 638

metoclopramide

for acid aspiration prophylaxis in elective surgery [Manchikanti, Marrero & Roush], 48

Pressure measurements, *See under* Measurement techniques

Pressure reversal, *See under* Theories of anesthesia

Pressures, *See under* Monitoring

Prilocaine, *See under* Anesthetics, local

Propranolol, *See under* Sympathetic nervous system; sympatholytic agents

Protamine, *See under* Blood, coagulation

Protein

binding

of bupivacaine, influence of lactic acid on [Coyle, Denson, Thompson, Myers, Arthur & Bridenbaugh], 127

Proteins

in human malignant hyperthermic muscle (LR) [Blanck, Fisher, Thompson & Muldoon], 589

Psychologic responses

awareness during surgery and (EV) [Blancher], 1
of children, and management for surgery (CO) [Beeby & Worthen], 638

Psychomotor function

Continuous Performance Test

in study of effectiveness of physostigmine as antagonist of respiratory depression and psychomotor effects caused by morphine or diazepam [Bourke, Rosenberg & Allen], 523

Trieger Dot Test

in study of effectiveness of physostigmine as antagonist of respiratory depression and psychomotor effects caused by morphine or diazepam [Bourke, Rosenberg & Allen], 523

Pulmonary artery catheters, *See under* Equipment; Monitoring

Pulmonary artery wedge pressure, *See under* Monitoring

Pulmonary function, *See under* Lung(s)

Pulmonary vascular resistance, *See under* Hemodynamics

Pulmonary volume, *See under* Lung(s)

Pulse rate, *See under* Heart

Pyridostigmine, *See under* Antagonists, neuromuscular relaxants

Radial arteries, *See under* Arteries

Rate response, *See under* Heart

Ream, A. K. and Fogdall, R. P.

Acute Cardiovascular Management (BR), 485

Rebreathing, *See under* Carbon dioxide

Receptors

baroreceptors

carotid sinus, local versus central effect of halothane on [Behnia & Koushanpour], 161

carotid body

and site of selective action of halothane on peripheral chemoreflex pathway in humans [Knill & Clement], 121

anesthetic depression of breathing and (EV) [Hornbein], 119

chemoreceptors

and site of selective action of halothane on peripheral chemoreflex pathway in humans [Knill & Clement], 121

anesthetic depression of breathing and (EV) [Hornbein], 119

stimulants of, and oxygen drive to breathing during halothane anesthesia (CO) [Clergue & Derenne], 627

stimulants of, and oxygen drive to breathing during halothane anesthesia (CO) [Ward], 627

Recovery

measurement of

in study of effectiveness of physostigmine as antagonist of respiratory depression and psychomotor effects caused by morphine or diazepam [Bourke, Rosenberg & Allen], 523

Rectal anesthesia, *See under* Anesthetic techniques

Reflexes

baroreceptor

activity in conscious and isoflurane-anesthetized dogs [Seagard, Hoop, Bosnjak, Osborn & Kampine], 266

complex effects of isoflurane on (CO) [Boyce & Routman], 479

complex effects of isoflurane on (CO) [Seagard], 480

control of heart rate during morphine sulfate, diazepam, N₂O/O₂ anesthesia in humans [Kotrlý, Ebert, Vucins, Roerig & Kampine], 558

does isoflurane preserve responsiveness of, better than halothane or enflurane? (CO) [Roy], 482

does isoflurane preserve responsiveness of, better than halothane or enflurane? (CO) [Kotrlý], 483

baroreflexes

carotid sinus, local versus central effect of halothane on [Behnia & Koushanpour], 161

Reflexes, *See also under* Sympathetic nervous system

Refractory period, *See under* Heart

Regional anesthesia, *See under* Anesthetic techniques

Regional blood flow, *See under* Blood; Hemodynamics

Renal failure, *See under* Diseases; Kidney

Renal function, *See under* Kidney

Replication, *See under* Cells

Respiration, *See under* Ventilation

Respiratory distress, *See under* Lung(s)

Resting ventilation, *See under* Ventilation

Resuscitation, *See under* Ventilation, artificial

Retinal hemorrhage, *See under* Complications

Retrosternal fibroplasia, *See under* Eye

RNA, *See under* Metabolism

S

Scheck, P. A., Sjostrand, U. H., and Smith, R. B.

Perspectives in High Frequency Ventilation (BR), 234

Seizures, *See under* Brain; Complications

Shunting, *See under* Lung(s); Ventilation

Sitting. *See under Position*

Skeletal muscle. *See under Muscle*

Skin damage. *See under Position*

Slack, S. J., and DeKornfeld, T. J.
Anesthesiology, Continuing Education Review, Second Edition (BR), 118

Smoking. *See under Lung(s)*

Solubility

- blood**
of volatile anesthetics, age and [Lerman, Gregory, Willis & Eger], 139

partition coefficient
of volatile anesthetics, age and [Lerman, Gregory, Willis & Eger], 139

Somatosensory evoked potentials. *See under Monitoring*

Somatosensory monitoring. *See under Monitoring*

Spasm, arterial. *See under Arteries*

Spasm, muscular. *See under Muscle*

Spermatogenesis. *See under Testis*

Sperm morphology. *See under Testis*

Spinal anesthesia. *See under Anesthetic techniques*

Spinal cord

- blood flow**
effects of subarachnoid lidocaine and phenylephrine on, in dogs [Dohi, Matsumiya, Takeshima & Naito], 238
- compression**
and migrating disc complicating spinal decompression in achondroplastic dwarf (CR) [McPherson, North, Udvarhelyi & Rosenbaum], 764

glucose utilization
in, and in brain, comparison of local rates of, in conscious and nitrous oxide- or pentobarbital-treated rats [Crosby, Crane & Sokoloff], 434

lesions
response of patients with, to muscle relaxants (RA) [Azar], 173

metabolism

- regional**
in, and in brain, comparison of local rates of, in conscious and nitrous oxide- or pentobarbital-treated rats [Crosby, Crane & Sokoloff], 434

Spontaneous ventilation. *See under Ventilation*

Sprays. *See under Equipment*

Statistics

- and small sample sizes (CO) [Lerman], 219

Steady state. *See under Carbon dioxide*

Stellate anesthesia. *See under Anesthetic techniques, regional*

Sterilization

- short-term, of pulmonary artery catheter inserted through external plastic shield (CR) [Johnston, Prough, Royster, Peacock, Gravlee, Mills & Cordell], 460

Stimulator, peripheral nerve. *See under Equipment*

Streptokinase, intracoronary. *See under Heart*

Subaortic stenosis, hypertrophic. *See under Heart*

Succinylcholine. *See under Neuromuscular relaxants*

Sufentanil. *See under Analgesics; Anesthetics, intravenous; Pharmacokinetics*

Surgery

- cardiac**
acute intermittent obstruction of Björk-Shiley mitral valve (CR) [Damen, Wever, Gherli, Hitchcock & Dion], 613
- coronary artery bypass, coronary artery spasms after (CR) [Skarvan, Graedel, Hasse, Stulz & Pfisterer], 323
- emergency, following intracoronary streptokinase (CR) [Goldberg, Colonna-Romano & Babins], 601
- intravenous nitroglycerin during fentanyl-pancuronium anesthesia, intraoperative myocardial ischemia and [Thomson, Mutch & Culigan], 385

intravenous nitroglycerin, methemoglobinemia, and respiratory distress following (CR) [Zurick, Wagner, Starr, Lytle & Esfahanous], 464

management of patient with protamine hypersensitivity for (CR) [Campbell, Goldstein & Atkins], 761

cardiopulmonary bypass

- temporary partial, during emergency operative management of near total tracheal occlusion (CR) [Wilson, Steiger, Jacobs, Sison & Holsey], 103

cardiovascular

- coronary artery bypass grafts, ECG changes with papaverine (CO) [Mahomed, Moorthy, Brown & King], 350
- pulmonary thromboendarterectomy, anesthetic management of (CR) [Brown, Bodary & Kirby], 197

carotid endarterectomy

- determination of shunt flow during (CO) [Lindsey], 215

eye

- retinal, in prone position: inexpensive simple headrest (CO) [Wollman & Neuman], 109

laparoscopy

- retinal hemorrhage following anesthesia for (CR) [Bolder & Norton], 595

laryngo-tracheal

- anesthetic management during Nd-YAG laser resection in (CO) [Vourc'h, Fischler, Personne, Colchen & Toty], 636
- anesthetic management during Nd-YAG laser resection in (CO) [Warner, Warner & Leonard], 637

neurosurgery

- spinal decompression in achondroplastic dwarf, migrating disc complicating (CR) [McPherson, North, Udvarhelyi & Rosenbaum], 764

neurosurgical

- complications of Mayfield skull clamp in (CR) [Baerts, de Lange, Boon & Broere], 462

noncardiac

- with intravenous nitroglycerin, prevention of intraoperative myocardial ischemia during (CR) [Coriat, Daloz, Bousseau, Fuciardi, Echter & Viars], 193
- pharmacokinetics of sufentanil during [Bovill, Sebel, Blackburn, Oei-Lim & Heykants], 502

thoracotomy

- management of pain after: technique of multiple intercostal nerve blocks (CO) [Restelli, Movilia, Bossi & Caironi], 353

Swan-Ganz catheters. *See under Equipment*

Sympathectomy. *See under Sympathetic nervous system*

Sympathetic nervous system

- adrenergic nerve endings**
halothane-induced changes in release and disposition of norepinephrine at, in dog saphenous vein [Lunn & Rorie], 377
- beta-adrenergic blockers**
 - timolol**
and postoperative apnea in neonates and young infants (CO) [Bailey], 622
- catecholamines**
 - dopamine**
diuretic properties of, in patients after open-heart operation [Hilberman, Maseda, Stinson, Derby, Spencer, Miller, Oyer & Myers], 489
 - renal effects of (EV) [Miller], 487
 - response to etomidate in surgical stress [Fragen, Shanks, Molteni & Avram], 652
- epinephrine**
response to etomidate in surgical stress [Fragen, Shanks, Molteni & Avram], 652
- norepinephrine**
halothane-induced changes in release and disposition of, at

adrenergic nerve endings in dog saphenous vein [Lunn & Rorie], 377

response to etomidate in surgical patients [Wagner & White], 647

response to etomidate in surgical stress [Fragen, Shanks, Molteni & Avram], 652

with therapeutic dose of bupivacaine in obstetrics (CO) [Albright], 217

with therapeutic dose of bupivacaine in obstetrics (CO) [Marx], 218

phenylephrine
subarachnoid, effects of, on spinal cord and cerebral blood flow in dogs [Dohi, Matsumiya, Takeshima & Naito], 238

reflexes
activity in conscious and isoflurane-anesthetized dogs [Seagard, Hoop, Bosnjak, Osborn & Kampine], 266

sympathectomy
lidocaine and phenylephrine in, effects of, on spinal cord and cerebral blood flow in dogs [Dohi, Matsumiya, Takeshima & Naito], 238

sympatholytic
propranolol
in study of serum potassium following succinylcholine in dogs with beta blockade [McCommon & Stoelting], 723

Sympatholytic agents, See under Sympathetic nervous system

Systemic vascular resistance, See under Hemodynamics

T

Temperature probes, See under Equipment

Testis

spermatogenesis
nitrous oxide inactivates methionine synthetase activity in, in rats [Brodsky, Baden, Serra & Kundomal], 66

sperm morphology
nitrous oxide inactivates methionine synthetase activity in, in rats [Brodsky, Baden, Serra & Kundomal], 66

Theories of anesthesia

pressure reversal
effect of, on aerobic metabolism of monkey kidney cells [Brabec, Bedows, Davidson & Knight], 43

volatile anesthetic effects on light-induced proton uptake of rhodopsin in bovine rod outer segment disk membrane [Mashimo, Tashiro & Yoshiya], 439

Thiamylal, See under Anesthetics, intravenous

Thiopental, See under Anesthetics, intravenous

Thoracic anesthesia, See under Anesthesia

Thoracotomy, See under Surgery

Thromboembolism, See under Embolism

Thrombosis, See under Complications

Tidal volume, See under Ventilation

Timolol, See under Sympathetic nervous system, beta-adrenergic blockers

Todd's paralysis, See under Complications

Toxicity

bleomycin
and restriction of oxygen (CO) [Goldiner & Rooney], 225
and restriction of oxygen (CO) [LaMantia, Glick & Marshall], 226
and small sample sizes (CO) [Lerman], 219

bupivacaine
and bier block (CO) [Moore], 782
and epinephrine with, in obstetrics (CO) [Albright], 217
and epinephrine with, in obstetrics (CO) [Marx], 218

convulsions
and activation of epileptogenic activity of etomidate (CR) [Gancher, Laxer & Krieger], 616

cyanide
release, in photodegradation of sodium nitroprusside [Arnold, Longnecker & Epstein], 254

endotoxin
and involvement of endotoxin in halothane-associated liver injury [Lind, Gandolfi, Sipes & Brown], 544

hepatic
and involvement of endotoxin in halothane-associated liver injury [Lind, Gandolfi, Sipes & Brown], 544
and liver circulation and function during isoflurane and halothane anesthesia [Gelman, Fowler & Smith], 726
of enflurane? (EV) [Dykes], 235

local anesthetics
and test doses of epidural anesthesia (CO) [Abouleish & Bourke], 344

and test doses of epidural anesthesia (CO) [Moore & Batra], 345

bupivacaine: cardiotoxicity or anesthetic technique? (CO) [Conklin & Ziadlourad], 625

cerebral and cardiac, influence of serum potassium on [Avery, Redon, Schaefer & Rusy], 134

metabolites
and involvement of endotoxin in halothane-associated liver injury [Lind, Gandolfi, Sipes & Brown], 544

methylmethacrylate
hazards of laser degradation of (CO) [Kroll, Morris & Norton], 115

nitroprusside
and photodegradation of: biologic activity and cyanide release [Arnold, Longnecker & Epstein], 254

Trauma, See under Complications

Trieger Dot Test, See under Psychomotor function

Tubes, endotracheal, See under Equipment

d-Tubocurarine, See under Neuromuscular relaxants

U

Ultrasonic Doppler, See under Equipment

Unilateral ventilation, See under Ventilation

Uridine, See under Metabolism

Utile, J. R. (with 29 contributors)
The Pathophysiology and Techniques of Cardiopulmonary Bypass-Volume II (BR), 486

V

Valves, See under Equipment

Vandam, L. D.
To Make the Patient Ready for Anesthesia: Medical Care of the Surgical Patient (BR), 232

Vaporizers, See under Equipment

Vascular pressures, See under Monitoring

Vascular resistance, See under Hemodynamics

Vecuronium, See under Neuromuscular relaxants

Veins

jugular
compression, and positive end-expiratory pressure, comparison of effects of, on canine cerebral venous pressure [Toung, Ngeow, Long, Rogers & Traystman], 169

Venous oxygen embolism, See under Embolism

Ventilation

airway occlusion pressure
and analgesic effects of dezocine in humans [Gal & DiFazio], 716

apnea
postoperative, timolol and, in neonates and young infants (CO) [Bailey], 622

artificial
mouth-to-mouth, device for filtering (CO) [Caccamo], 638

carbon dioxide response

and analgesic effects of dezocine in humans [Gal & DiFazio], 716
effects of physostigmine on [Spaulding, Choi, Gross, Apfelbaum & Broderson], 551

following intrathoracic morphine after upper abdominal surgery [Clergue, Montembault, Despiers, Ghesquiere, Harari & Viars], 677

measurements may be misleading (CO) [Gross], 110

carbon dioxide tension

lung volume and, in response to intravenous versus inhalation anesthesia in sheep [Dueck, Rathbun & Greenburg], 55

continuous positive airway pressure

device for oxygen insufflation with, during one-lung ventilation (CO) [Brown & Davis], 481

continuous positive pressure

after pulmonary microembolization, lung water increases with fluid administration during [Noble & Kay], 703

simplified method of delivery of, to nonventilated lung during unilateral pulmonary ventilation (CO) [Lyons], 216

control

and response to hypoxia, effect of lidocaine infusion on [Gross, Caldwell, Shaw & Apfelbaum], 662

controlled mechanical

long-term, with positive end-expiratory pressure, effect of, on renal function, in dogs [Berry, Geer, Marshall, Wu, Zbuzek & Marshall], 406

differential

effects of, on patients with acute bilateral lung disease [Bachrendtz & Hedenstierna], 511

with selective PEEP, ventilation and perfusion of each lung during [Hedenstierna, Bachrendtz, Klingstedt, Santesson, Söderborg, Dahlborn & Bindslev], 369

high frequency (HFV)

regional organ blood flow during [Bunegin, Smith, Sjostrand, Albin, Babinski, Heisel & Borg], 416

high frequency positive-pressure (HFPPV)

regional organ blood flow during [Bunegin, Smith, Sjostrand, Albin, Babinski, Heisel & Borg], 416

hypoxic response

and site of selective action of halothane on peripheral chemoreflex pathway in humans [Knill & Clement], 121

drive, halothane-induced depression of, does almitrine restore? (CO) [Clergue & Derenne], 627

drive, halothane-induced depression of, does almitrine restore? (CO) [Ward], 627

to halothane anesthesia (EV) [Hornbein], 119

intermittent positive-pressure (IPPV)

regional organ blood flow during [Bunegin, Smith, Sjostrand, Albin, Babinski, Heisel & Borg], 416

one-lung

device for oxygen insufflation with continuous positive airway pressure during (CO) [Brown & Davis], 481

oxygen response

and oxygen drive to breathing during halothane anesthesia: effects of almitrine bismesilate (CO) [Clergue & Derenne], 627

and oxygen drive to breathing during halothane anesthesia: effects of almitrine bismesilate (CO) [Ward], 627

oxygen tension

lung volume and, in response to intravenous versus inhalation anesthesia in sheep [Dueck, Rathbun & Greenburg], 55

pattern

precursorization inhibits maximal ventilatory effort (CR) [Bruce, Downs, Kulkarni & Capan], 618

pattern of breathing

following intrathoracic morphine after upper abdominal surgery

[Clergue, Montembault, Despiers, Ghesquiere, Harari & Viars], 677

PEEP

and jugular venous compression, comparison of effects of, on canine cerebral venous pressure [Toung, Ngeow, Long, Rogers & Traystman], 169

perfusion

lung volume and, in response to intravenous versus inhalation anesthesia in sheep [Dueck, Rathbun & Greenburg], 55

positive end-expiratory pressure

effects of, on patients with acute bilateral lung disease [Bachrendtz & Hedenstierna], 511

long-term controlled mechanical ventilation with, effect of, on renal function, in dogs [Berry, Geer, Marshall, Wu, Zbuzek & Marshall], 406

selective, ventilation and perfusion of each lung during differential ventilation with [Hedenstierna, Bachrendtz, Klingstedt, Santesson, Söderborg, Dahlborn & Bindslev], 369

postoperative ventilation

following intrathoracic morphine after upper abdominal surgery [Clergue, Montembault, Despiers, Ghesquiere, Harari & Viars], 677

respiration

monitoring of, with gauze thread (CO) [Moore], 623

resting

measurements may be misleading (CO) [Gross], 110

shunting

lung volume and, in response to intravenous versus inhalation anesthesia in sheep [Dueck, Rathbun & Greenburg], 55

spontaneous

and effect of long-term controlled mechanical ventilation with positive end-expiratory pressure on renal function in dogs [Berry, Geer, Marshall, Wu, Zbuzek & Marshall], 406

stimulants

and oxygen drive to breathing during halothane anesthesia: effects of almitrine bismesilate (CO) [Clergue & Derenne], 627

and oxygen drive to breathing during halothane anesthesia: effects of almitrine bismesilate (CO) [Ward], 627

tidal volume

following orally administered flunitrazepam for preanesthetic medication in children (CR) [Forster, Gamulin, Morel, Weiss & Rouge], 597

unilateral

pulmonary, simplified method of CPAP delivery to nonventilated lung (CO) [Lyons], 216

ventilation-perfusion ratio

lung volume and, in response to intravenous versus inhalation anesthesia in sheep [Dueck, Rathbun & Greenburg], 55

Ventilation-perfusion ratios, See under Ventilation

Ventilators, See under Equipment

Ventilatory response, See under Carbon dioxide

Verapamil, See under Ions, calcium entry blocker; Pharmacology

Vomiting, See also under Complications; Gastrointestinal tract

antiemetics

metoclopramide as, efficacy of (CO) [Dundee], 229

droperidol

and antiemetic efficacy of metoclopramide (CO) [Dundee], 229

metoclopramide

antiemetic efficacy of (CO) [Dundee], 229

W

Waldron, B. A.

Management of Epidural Analgesia in Childbirth (BR), 233

AUTHOR INDEX TO VOLUME 61

A

Abernethy, D. R., *see* Greenblatt, D. J.
 Abouleish, E., Bourke, D.: Concerning the Use and Abuse of Test Doses for Epidural Anesthesia, 344
 Albin, M. S.: The Paradox of Paradoxic Air Embolism—PEEP, Valsalva, and Patent Foramen Oval. Should the Sitting Position Be Abandoned, 222
 Albin, M. S., *see* Bunegin, L.
 Albrecht, R. F., *see* Barrera, M.
 Albright, G. A.: Epinephrine Should Be Used with the Therapeutic Dose of Bupivacaine in Obstetrics, 217
 Aldrete, J. A., Marron, G. M., Wright, A. J.: The First Administration of Anesthesia in Military Surgery: On Occasion of the Mexican-American War, 585
 Allen, L. L., *see* Ramsey, F. M.
 Allen, P. D., *see* Bourke, D. L.
 Apfelbaum, J. L., *see* Gross, J. B.
 Apfelbaum, J. L., *see* Spaulding, B. C.
 Arndt, J. O., Mikat, M., Parasher, C.: Fentanyl's Analgesic, Respiratory, and Cardiovascular Actions in Relation to Dose and Plasma Concentration in Unanesthetized Dogs, 355
 Arnold, W. P., Longnecker, D. E., Epstein, R. M.: Photodegradation of Sodium Nitroprusside: Biologic Activity and Cyanide Release, 254
 Arthur, G. R., *see* Coyle, D. E.
 Artru, A. A.: Effects of Enflurane and Isoflurane on Resistance on Reabsorption of Cerebrospinal Fluid in Dogs, 529
 Asari, H., Inoue, K., Maruta, H., Hirose, Y.: The Inhibitory Effect of Intravenous *d*-Tubocurarine and Oral Dantrolene on Halothane-Succinylcholine-induced Myoglobinemia in Children, 332
 Ashton, J. P. A., *see* Pearl, R. G.
 Astaria, R. W., *see* Scheller, M. S.
 Atkins, P. C., *see* Campbell, F. W.
 Avery, P., Redon, D., Schaezner, G., Rusy, B.: The Influence of Serum Potassium on the Cerebral and Cardiac Toxicity of Bupivacaine and Lidocaine, 134
 Avram, M. J., *see* Fragen, R. J.
 Aymon, E., *see* Gamulin, Z.
 Azar, I., Thiagarajah, S.: The Jury Is Still Out in the Case of Isoflurane *versus* Halothane in Neurosurgical Patients, 786
 Azar, I.: The Response of Patients with Neuromuscular Disorders to Muscle Relaxants: A Review, 173
 Azar, I., *see* Thiagarajah, S.

B

Baba, S., *see* Goromaru, T.
 Babins, N. A., *see* Goldberg, M.

Babinski, M. F., *see* Bunegin, L.
 Backofen, J. E., Schauble, J. F., Rogers, M. C.: Transesophageal Pacing for Bradycardia, 777
 Baden, J. M., *see* Brodsky, J. B.
 Badgwell, J. M., Heavner, J. E.: Masetter Spasm heralds Malignant Hyperthermia—Current Dilemma or Merely Academia Gone Mad, 230
 Baehrhendtz, S., Hedenstierna, G.: Differential Ventilation and Selective Positive End-expiratory Pressure: Effects on Patients with Acute Bilateral Lung Disease, 511
 Baehrhendtz, S., *see* Hedenstierna, G.
 Baerts, W. D. M., de Lange, J. J., Booij, L. H. D. J., Broere, G.: Complications of the Mayfield Skull Clamp, 460
 Bagshaw, R. J., Smith, D. S., Bloom, M. J., Mitchell, R. L., Young, M. L.: Perioperative Diuresis and ICP, 107
 Bailey, P. L.: Timolol and Postoperative Apnea in Neonates and Young Infants, 622
 Banner, M. J., Boyesen, P. G.: Demand Valve Improperly Set Resulting in Pulmonary Barotrauma, 86
 Banner, T., *see* James, C. F.
 Banner, T. C., *see* Gibbs, C. P.
 Barrera, M., Miletich, D. J., Albrecht, R. F., Hoffman, W. E.: Hemodynamic Consequences of Halothane Anesthesia during Chronic Anemia, 36
 Barrier, G., *see* Cohen, S. E.
 Bashein, G., Cheney, F. W., Jr.: Carbon Dioxide Detection to Verify Intratracheal Placement of a Breathing Tube, 782
 Batra, M. S., *see* Moore, D. C.
 Beamer, W. C., *see* Royster, R. L.
 Bedford, R. F., *see* Perkins, N. A. K.
 Bedows, E., *see* Brabec, M. J.
 Beeby, D. G., Worthen, M.: Management of Children for Surgery, 638
 Behnia, R., Koushanpour, E.: Local *versus* Central Effect of Halothane on Carotid Sinus Baroreceptor Function, 161
 Belghiti, J., *see* Goldfarb, G.
 Berry, A. J., Isaacson, I. J., Kane, M. A.: Reply, 622
 Berry, A. J., Geer, R. T., Marshall, C., Wu, W.-H., Zbuzek, V. M., Marshall, B. E.: The Effect of Long-term Controlled Mechanical Ventilation with Positive End-expiratory Pressure on Renal Function in Dogs, 406
 Berry, F. A.: The Use of a Stilet in Blind Nasotracheal Intubation, 469
 Betta, J., *see* Maneksha, F. R.
 Biebuyck, J. F., *see* Davis, D. W.
 Bindseil, L., *see* Hedenstierna, G.
 Blacher, R. S.: Awareness during Surgery, 1
 Blackburn, C. L., *see* Bovill, J. G.
 Blanck, T. J. J., Fisher, Y. I., Thompson, M., Muldoon, S.: Low Molecular Weight Proteins in Human Malignant Hyperthermic Muscle, 589
 Bloom, M. J., *see* Bagshaw, R. J.
 Bloor, B. C., *see* Kapur, P. A.
 Bodary, A. K., *see* Brown, D. L.
 Bogetz, M. S., Katz, J. A.: Recall of Surgery for Major Trauma, 6
 Bolder, P. M., Norton, M. L.: Retinal Hemorrhage Following Anesthesia, 595
 Booij, L. H. D. J., *see* Baerts, W. D. M.
 Borg, U., *see* Bunegin, L.
 Bosnjak, Z. J., *see* Seagard, J. L.
 Bosnjak, Z. J., *see* Stowe, D. F.
 Bossi, L., *see* Restelli, L.
 Boucek, C. D., Tyler, I. L., de la Vega, S. B., McKenzie, R.: Emergency Equipment in the Labor Suite, 478
 Bourke, D., *see* Abouleish, E.
 Bourke, D. L., Rosenberg, M., Allen, P. D.: Phystostigmine: Effectiveness as an Antagonist of Respiratory Depression and Psychomotor Effects Caused by Morphine or Diazepam, 523
 Bourke, D. L., Smith, B. A. C., Erickson, J., Gwartz, B., Lessard, L.: TENS Reduces Halothane Requirements during Hand Surgery, 769
 Bousseau, D., *see* Coriat, P.
 Bovill, J. G., Sebel, P. S., Stanley, T. H.: Opioid Analgesics in Anesthesia: With Special Reference to Their Use in Cardiovascular Anesthesia, 731
 Bovill, J. G., Sebel, P. S., Blackburn, C. L., Oei-Lim, V., Heykants, J. J.: The Pharmacokinetics of Sufentanil in Surgical Patients, 502
 Boyce, J. R., Routman, M.: Complex Effects of Isoflurane on Baroreceptor Reflex Compounded by Errors, 479
 Boyesen, P. G., *see* Banner, M. J.
 Brabec, M. J., Bedows, E., Davidson, B. A., Knight, P. R.: Effect of General Anesthetics and Pressure on Aerobic Metabolism of Monkey Kidney Cells, 43
 Bradley, J. W., *see* Shulman, M.
 Braunstein, K. M., *see* Weinberg, S.
 Brebner, J., *see* Shulman, M.
 Bridenbaugh, P. O., *see* Coyle, D. E.
 Briscoe, J. R., *see* Durant, N. N.
 Broderson, H., *see* Spaulding, B. C.
 Brodsky, J. B., Baden, J. M., Serra, M., Kun-domal, Y.: Nitrous Oxide Inactivates Methionine Synthetase Activity in Rat Testis, 66
 Broere, G., *see* Baerts, W. D. M.
 Brooks, T. D., Paulus, D. A., Winkle, W. E.: Infrared Heat Lamps Interfere with Pulse Oximeters, 630
 Brown, B. R., Jr.: Tribute to a Little-known Pioneer, 349
 Brown, B. R., Jr., *see* Lind, R. C.

AUTHOR INDEX TO VOLUME 61

Brown D. L., Davis, R. F.: A Simple Device for Oxygen Insufflation with Continuous Positive Airway Pressure during One-lung Ventilation, 481
Brown, D. L., Bodary, A. K., Kirby, R. R.: Anesthetic Management of Pulmonary Thromboendarterectomy, 197
Brown, J. W., *see* Mahomed, Y.
Brown, M., Gordon, L. H., Brown, O. W.: Superficial Temporal Artery Cannulation in Adults, 114
Brown, O. W., *see* Brown, M.
Bruce, D. L., Downs, J. B., Kulkarni, P. S., Capan, L. M.: Precarurization Inhibits Maximal Ventilatory Effort, 618
Buckley, J. J., *see* Lo, J. N.
Buffington, C. W., *see* Rooke, G. A.
Bunegin, L., Smith, R. B., Sjostrand, U. H., Albin, M. S., Babinski, M. F., Helsel, P., Borg, U.: Regional Organ Blood Flow during High-frequency Positive-pressure Ventilation (HFPPV) and Intermittent Positive-pressure Ventilation (IPPV), 416
Buschi, A. J., *see* Perkins, N. A. K.

C

Caccamo, A.: A Simple Device for Filtering Mouth-to-Mouth Resuscitation, 638
Cail, W. S., *see* Perkins, N. A. K.
Cairns, A. M., *see* Fink, B. R.
Caironi, C., *see* Restelli, L.
Caldwell, C. B., *see* Gross, J. B.
Campbell, F. W., Goldstein, M. F., Atkins, P. C.: Management of the Patient with Protamine Hypersensitivity for Cardiac Surgery, 761
Canfell, C., *see* Fahey, M. R.
Canfell, C., *see* Fisher, D. M.
Capan, L. M., *see* Bruce, D. L.
Castagnoli, K., *see* Fahey, M. R.
Chang, J.-L., Gonzalez-Abola, E., Larson, C. E., Lobes, L.: Brain Stem Anesthesia Following Retrobulbar Block, 789
Chauvelot-Moachon, L., *see* Cohen, S. E.
Cheney, F. W., Jr., *see* Bashein, G.
Choi, S. D., *see* Spaulding, B. C.
Clement, J. L., *see* Knill, R. L.
Clergue, F., Derenne, J. Ph.: Reply, 627
Clergue, F., Montembault, C., Despierres, O., Ghesquiere, F., Harari, A., Viars, P.: Respiratory Effects of Intrathecal Morphine after Upper Abdominal Surgery, 677
Cohen, R., *see* Lomessy, A.
Cohen, S. E., Jasson, J., Talafre, M.-L., Chauvelot-Moachon, L., Barrier, G.: Does Metoclopramide Decrease the Volume of Gastric Contents in Patients Undergoing Cesarean Section, 604
Colchen, A., *see* Vourc'h, G.
Coleprate, F., *see* Siegel, M.
Collier, H. W., Engelking, K.: Todd's Paralysis Following an Interscalene Block, 342
Colonna-Romano, P., *see* Goldberg, M.
Comerford, J., *see* Cunningham, A. J.
Conklin, K. A., Ziadourad, F.: Bupivacaine:

Cardiotoxicity or Anesthetic Technique, 625

Conklin, K. A., Lau, S.-S.: Halothane Effects on ATP Content and Uridine Uptake and Phosphorylation in *Tetrahymena pyriformis*, 78
Cordell, A. R., *see* Johnston, W. E.
Coriat, P., Daloz, M., Bousseau, D., Fuciardi, J., Echter, E., Viars, P.: Prevention of Intraoperative Myocardial Ischemia during Noncardiac Surgery with Intravenous Nitroglycerin, 193
Cottrell, J. E., *see* Weinberg, S.
Cousins, M. J., Mather, L. E.: Intrathecal and Epidural Administration of Opioids, 276
Coyle, D. E., Denson, D. D., Thompson, G. A., Myers, J. A., Arthur, G. R., Bridenbaugh, P. O.: The Influence of Lactic Acid on the Serum Protein Binding of Bupivacaine: Species Differences, 127
Crane, A. M., *see* Crosby, G.
Cronnelly, R., *see* Fisher, D. M.
Cronnelly, R., *see* Hennis, P. J.
Cronnelly, R., *see* Miller, R. D.
Crosby, G., Crane, A. M., Sokoloff, L.: A Comparison of Local Rates of Glucose Utilization in Spinal Cord and Brain in Conscious and Nitrous Oxide- or Pentobarbital-treated Rats, 434

Cucchiara, R. F.: Safety of the Sitting Position, 790
Culligan, J. D., *see* Thomson, I. R.
Cunningham, A. J., Donnelly, M., Comerford, J.: Osteogenesis Imperfecta: Anesthetic Management of a Patient for Cesarean Section: A Case Report, 91

D

Dahlborn, M., *see* Hedenstierna, G.
Daloz, M., *see* Coriat, P.
Damen, J., Wever, J., Gherli, T., Hitchcock, F., Dion, R.: Acute Intermittent Obstruction of a Björk-Shiley Mitral Valve: A Case Report, 613
Davidson, B. A., *see* Brabec, M. J.
Davis, D. W., Hawkins, R. A., Mans, A. M., Hibbard, L. S., Biebuyck, J. F.: Regional Cerebral Glucose Utilization during Althesin® Anesthesia, 362
Davis, R. F., *see* Brown D. L.
de la Vega, S. B., *see* Boucek, C. D.
de Lange, J. J., *see* Baerts, W. D. M.
Dehring, D. J., McDonald, J. S.: Intubation, Aspiration Prophylaxis in Midtrimester Abortions, 223
Denson, D. D., *see* Coyle, D. E.
Derby, G. C., *see* Hilberman, M.
Derenne, J. Ph., *see* Clergue, F.
DesMarteau, J. K.: Flow through the Copper Kettle Flowmeter, 789
Despierres, O., *see* Clergue, F.
Diaz, J. H., Stedman, P. M., LeTard, F. X.: Perioperative Management of Newborn Pharyngeal Teratomas, 608
DiFazio, C. A., *see* Gal, T. J.

DiFazio, C. A., *see* Korbon, G. A.
DiNardo, J. A., Satz, P. R.: Occlusion-Shake Test for Pulmonary Artery Catheters, 349

Dion, R., *see* Damen, J.
Ditchik, J., Herr, G. P.: Can We Do without O_2 Analyzers, 629
Doblar, D. D., Hinkle, J. C.: Flowmeter Malfunction: Effect on Delivered Anesthetic Concentration, 220

Dohi, S., Matsumiya, N., Takeshima, R., Naito, H.: The Effects of Subarachnoid Lidocaine and Phenylephrine on spinal cord and Cerebral Blood Flow in Dogs, 238

Donnelly, M., *see* Cunningham, A. J.

Downs, J. B., *see* Bruce, D. L.

Drummond, J. C., *see* Todd, M. M.

Drummond, J. C., *see* Todd, M. M.

Dueck, R., Rathbun, M., Greenburg, G. A.: Lung Volume and VA/Q Distribution Response to Intravenous versus Inhalation Anesthesia in Sheep, 55

Dueck, R., O'Connor, R. D.: Thiopental: False-positive RAST in Patients with Elevated Serum IgE, 337

Dundee, J. W.: Concerning the Antiemetic Efficacy of Metoclopramide, 229

Durant, N. N., Nguyen, N., Katz, R. L.: Reply, 784

Durant, N. N., Briscoe, J. R., Katz, R. L.: The Effects of Acute and Chronic Hydrocortisone Treatment on Neuromuscular Blockade in the Anesthetized Cat, 144

Dykes, M. H. M.: Is Enflurane Hepatotoxic, 235

E

Ebert, P. A., *see* Palmisano, B. W.
Ebert, T. J., *see* Kotry, K. J.
Echter, E., *see* Coriat, P.
Edelstein, G., *see* Hermens, J. M.
Eger, E. I., II., *see* Lerman, J.
Eisenman, T. S.: On the Prevention of Hypoxic Accidents, 624

Eisenstein, M. M., *see* Schulman, D. S.

El-Etr, A. A., *see* Shah, K. B.

Elninger, J. H., *see* Perkins, N. A. K.

Ellingson, R. J., *see* Poulton, T. J.

Engelking, K., *see* Collier, H. W.

Epstein, R. M., *see* Arnold, W. P.

Erickson, J., *see* Bourke, D. L.

Esfafanous, F. G., *see* Zurick, A. M.

Evans, J. M., *see* Palayiwa, E.

F

Fahey, M. R., Rupp, S. M., Fisher, D. M., Miller, R. D., Sharma, M., Canfell, C., Castagnoli, K., Hennis, P. J.: The Pharmacokinetics and Pharmacodynamics of Atracurium in Patients with and without Renal Failure, 699

Fahey, M. R., *see* Miller, R. D.

Fallacaro, M. D., *see* Sievenpiper, T. S.

Faulhaber, J. A., *see* Rooke, G. A.

Favre, H., *see* Gamulin, Z.
 Fenwick, D. G., *see* Lillie, P. E.
 Fernández-Cano, F.: A Simple Accurate Technique for Establishing Zero Reference Levels for Pressure Measurements, 478
 Fink, B. R., Cairns, A. M.: Diffusional Delay in Local Anesthetic Block *In Vitro*, 555
 Fischler, M., *see* Vourc'h, G.
 Fisher, D. M., Cronnelly, R., Sharma, Manohar, Miller, R. D.: Clinical Pharmacology of Edrophonium in Infants and Children, 428
 Fisher, D. M., Canfell, C., Miller, R. D.: Stability of Atracurium Administered by Infusion, 347
 Fisher, D. M., *see* Fahey, M. R.
 Fisher, D. M., *see* Hennis, P. J.
 Fisher, D. M., *see* Miller, R. D.
 Fisher, D. M., *see* Palmisano, B. W.
 Fisher, Y. I., *see* Blanck, T. J. J.
 Flacke, W. E., *see* Kapur, P. A.
 Flewellen, E. H., Nelson, T. E.: Prophylactic and Therapeutic Doses of Dantrolene for Malignant Hyperthermia, 477
 Flynn, J. T.: Reply, 785
 Foldes, F. F.: Concerning the site of Action of Verapamil on Skeletal Muscle, 783
 Forster, A., Gamulin, Z., Morel, D., Weiss, V., Rouge, J.-Cl.: Respiratory Depression Following Orally Administered Flunitrazepam for Preanesthetic Medication in Children, 597
 Forster, A., *see* Gamulin, Z.
 Fowler, K. C., *see* Gelman, S.
 Fragen, R. J., Shanks, C. A., Molteni, A., Avram, M. J.: Effects of Etomidate on Hormonal Responses to Surgical Stress, 652
 Freiberger, J. J.: An Unusual Presentation of an Airway Tear, 204
 Friesen, R. H.: Hepatitis B Markers in Pediatric Anesthesia Personnel, 622
 From, R., George, G. P., Tinker, J. H.: Forreger 705® Malfunction Resulting in Loss of Gas Flow, 321
 Fujioka, H., *see* Shimoji, K.
 Fukazawa, T., *see* Shimoji, K.
 Furuta, T., *see* Goromaru, T.
 Fuscardi, J., *see* Coriat, P.

G

Gal, T. J., DiFazio, C. A.: Ventilatory and Analgesic Effects of Desocine in Humans, 716
 Gamulin, Z., Forster, A., Morel, D., Simonet, F., Aymon, E., Favre, H.: Effects of Infrarenal Aortic Cross-clamping on Renal Hemodynamics in Humans, 394
 Gamulin, Z., *see* Forster, A.
 Gancher, S., Laxer, K. D., Krieger, W.: Activation of Epileptogenic Activity by Etomidate, 616
 Gandolfi, A. J., *see* Lind, R. C.
 Geer, R. T., *see* Berry, A. J.

Gelb, A.: Benzodiazepines and Polymorpho-nuclear Leukocyte Oxidative Activity, 632
 Gelman, S., Fowler, K. C., Smith, L. R.: Liver Circulation and Function during Isoflurane and Halothane Anesthesia, 726
 George, G. P., *see* From, R.
 George, T. M.: Failure of Keyed Agent-specific Filling Devices, 228
 Gherli, T., *see* Damen, J.
 Ghesquiere, F., *see* Clergue, F.
 Gibbs, C. P., Rolbin, S. H., Norman, P.: Cause and Prevention of Maternal Aspiration, 111
 Gibbs, C. P., Banner, T. C.: Effectiveness of Bicitra® as a Preoperative Antacid, 97
 Gibbs, C. P., *see* James, C. F.
 Giesecke, A. H., Hiley, M. D.: Reply, 792
 Glauber, D. T., *see* Hornbein, T. F.
 Gluck, J. H., *see* LaMantia, K. R.
 Glynn, C. J., *see* Lillie, P. E.
 Goetter, C., *see* Jones, D. E.
 Goldberg, M., Colonna-Romano, P., Babins, N. A.: Emergency Coronary Artery Bypass Surgery Following Intracoronary Streptokinase, 601
 Goldfarb, G., Belghiti, J.: Reply, 633
 Goldiner, P. L., Rooney, S.-M.: In Defense of Restricting Oxygen in Bleomycin-treated Surgical Patients, 225
 Goldman, E., McDonald, J. S.: Continuous Oxygenation during Nasotracheal Intubation, 352
 Goldstein, M. F., *see* Campbell, F. W.
 Gonzalez-Abola, E., *see* Chang, J.-L.
 Gordon, E., *see* Sollevi, A.
 Gordon, L. H., *see* Brown, M.
 Goromaru, T., Matsuuwa, H., Yoshimura, N., Miyawaki, T., Sameshima, T., Miyao, J., Furuta, T., Baba, S.: Identification and Quantitative Determination of Fentanyl Metabolites in Patients by Gas Chromatography-Mass Spectrometry, 73
 Gourlay, G. K., Willis, R. J., Wilson, P. R.: Postoperative Pain Control with Methadone: Influence of Supplementary Methadone Doses and Blood Concentration-Response Relationships, 19
 Graedel, E., *see* Skarvan, K.
 Gravlee, G. P., *see* Johnston, W. E.
 Green, D., *see* Kissin, I.
 Greenberg, J., *see* Young, M. L.
 Greenblatt, D. J., Abernethy, D. R., Lochniskar, A., Harmatz, J. S., Limjoco, R. A., Shader, R. I.: Effect of Age, Gender, and Obesity on Midazolam Kinetics, 27
 Greenburg, G. A., *see* Dueck, R.
 Gregory, G. A., *see* Lerman, J.
 Gregory, G. A., *see* Palmisano, B. W.
 Gross, J. B.: Resting Ventilation Measurements May Be Misleading, 110
 Gross, J. B., Caldwell, C. B., Shaw, L. M., Apfelbaum, J. L.: The Effect of Lidocaine Infusion on the Ventilatory Response to Hypoxia, 662
 Gross, J. B., *see* Spaulding, B. C.
 Gwartz, B., *see* Bourke, D. L.

H

Hamifin, J. M., *see* Hermens, J. M.
 Harari, A., *see* Clergue, F.
 Hard, C., Nargozian, C. D.: Iatrogenic Airway Foreign Body, 786
 Harmatz, J. S., *see* Greenblatt, D. J.
 Harp, J. R., *see* Young, M. L.
 Harrington, J. F.: An Unusual Cause of Endotracheal Tube Obstruction, 116
 Hashiba, M., *see* Shimoji, K.
 Hasse, J., *see* Skarvan, K.
 Hasselström, L. J., Mogensen, T.: Toxic Reaction of Bupivacaine at Low Plasma Concentration, 99
 Hawkins, R. A., *see* Davis, D. W.
 Heath, K. R., *see* Kates, R. A.
 Heavner, J. E., *see* Badgwell, J. M.
 Hedenstierna, G., Baehrendtz, S., Klingstedt, C., Santesson, J., Söderborg, B., Dahlborn, M., Bindlev, L.: Ventilation and Perfusion of Each Lung during Differential Ventilation with Selective PEEP, 369
 Hedenstierna, G., *see* Baehrendtz, S.
 Helsel, P., *see* Bunegin, L.
 Hempelmann, G., *see* Russ, W.
 Hennis, P. J., Cronnelly, R., Sharma, M., Fisher, D. M., Miller, R. D.: Metabolites of Neostigmine and Pyridostigmine Do Not Contribute to Antagonism of Neuromuscular Blockade in the Dog, 534
 Hennis, P. J., *see* Fahey, M. R.
 Hermens, J. M., Edelstein, G., Hanifin, J. M., Woodward, W. R., Hirshman, C. A.: Inhalational Anesthesia and Histamine Release during Bronchospasm, 69
 Herr, G. P., *see* Ditchik, J.
 Heykants, J. J., *see* Bovill, J. G.
 Hibbard, L. S., *see* Davis, D. W.
 Hilberman, M., Maseda, J., Stinson, E. B., Derby, G. C., Spencer, R. J., Miller, D. C., Oyer, P. E., Myers, B. D.: The Diuretic Properties of Dopamine in Patients after Open-heart Operation, 489
 Hiley, M. D., *see* Giesecke, A. H.
 Hinkle, A. J., Ruhland, G.: Reply, 477
 Hinkle, J. C., *see* Doblar, D. D.
 Hirata, T., *see* Shimada, Y.
 Hirose, Y., *see* Asari, H.
 Hirshman, C. A., *see* Hermens, J. M.
 Hitchcock, F., *see* Damen, J.
 Hoffman, S., *see* Shapiro, L. A.
 Hoffman, W. E., *see* Barrera, M.
 Holsey, C., *see* Wilson, R. F.
 Hopp, F. A., *see* Seagard, J. L.
 Hornbein, T. F., Glauber, D. T.: Inadvertent Inspiration of Carbon Dioxide, 114
 Hornbein, T. F.: To Breathe or Not to Breathe, 119
 Hudson, R. J., *see* Sorbo, S.
 Hug, C. C. Jr., Stanski, D. R.: Reply, 106
 I

Inoue, K., *see* Asari, H.
 Irestedt, L., *see* Sollevi, A.
 Isaacson, I. J., *see* Berry, A. J.

AUTHOR INDEX TO VOLUME 61

J

Jacobs, J., *see* Wilson, R. F.
James, C. F., Gibbs, C. P., Banner, T.: Postpartum Perioperative Risk of Aspiration Pneumonia, 756
Jasson, J., *see* Cohen, S. E.
Jebelis, J. A., *see* Kissin, I.
Jedeikin, R. J., *see* Shapiro, L. A.
Jenkins, J. G.: Pretreatment and "Crash" Induction, 346
Johnson, E. B.: Did Anesthetic Mismanagement Contribute to Intraoperative Death, 1, 791
Johnson, J. C., *see* Royster, R. L.
Johnston, W. E., Prough, D. S., Royster, R. L., Peacock, J. E., Gravlee, G. P., Mills, S. A., Cordell, A. R.: Short-term Sterility of the Pulmonary Artery Catheter Inserted Through an External Plastic Shield, 461
Johnston, W. E., *see* Royster, R. L.
Jones, D. E., Watson, C. B., Goetter, C.: Oxygen Pressure Sensor Shut-off Valve Failure in the Ohio® "Wedge" Anesthesia Machine, 634
Jones, R. M., *see* Pearce, A. C.

K

Kampine, J. P., *see* Kotrly, K. J.
Kampine, J. P., *see* Seagard, J. L.
Kampine, J. P., *see* Stowe, D. F.
Kane, M. A., *see* Berry, A. J.
Kaplan, M. J., *see* Stone, D. J.
Kapur, P. A., Bloor, B. C., Flacke, W. E., Olewine, S. K.: Comparison of Cardiovascular Responses to Verapamil during Enflurane, Isoflurane, or Halothane Anesthesia in the Dog, 156
Kates, R. A., Zagg, A. P., Norfleet, E. A., Heath, K. R.: Comparative Cardiovascular Effects of Verapamil, Nifedipine, and Diltiazem during Halothane Anesthesia in Swine, 10
Katz, J. A., *see* Bogetz, M. S.
Katz, R. L., *see* Durant, N. N.
Katz, R. L., *see* Durant, N. N.
Kaufman, J. J., *see* Schulman, D. S.
Kay, J. C., *see* Noble, W. H.
Kim, T. H., *see* Lo, J. N.
King, R. D., *see* Mahomed, Y.
Kirby, R. R., *see* Brown, D. L.
Kirsh, M. M., *see* Samra, S. K.
Kissin, I., Green, D.: Effect of Halothane on Cardiac Acceleration Response to Somatic Nerve Stimulation in Dogs, 708
Kissin, I., Jebelis, J. A.: Halothane Antagonizes Effect of Morphine on the Motor Reaction Threshold in Rats, 671
Kling, D., *see* Russ, W.
Klingstedt, C., *see* Hedenstierna, G.
Knight, P. R., *see* Brabec, M. J.
Knight, P. R., *see* Kroll, D. A.
Knill, R. L., Clement, J. L.: Site of Selective Action of Halothane on the Peripheral Chemoreflex Pathway in Humans, 121

Koka, B. V., *see* Schwartz, L.
Kondo, K.: Percutaneous Radial Artery Cannulation Using a Pressure-curve-directed Technique, 639
Kopman, A. F., Lawson, D.: Milliamperage Requirements for Supramaximal Stimulation of the Ulnar Nerve with Surface Electrodes, 83
Kopman, A. F.: Pharmacokinetic Variables: What Should Be Published, 106
Korbon, G. A., Rowlingson, J. C., DiFazio, C. A.: Sensitivity to Pain Predicts CNS Sensitivity to Lidocaine, 767
Kotrly, K. J., Ebert, T. J., Vucins, E. J., Roerig, D. L., Kampine, J. P.: Baroreceptor Reflex Control of Heart Rate during Morphine Sulfate, Diazepam, N_2O/O_2 Anesthesia in Humans, 558
Kotrly, K. J.: Reply, 483
Koushampour, E., *see* Behnia, R.
Krieger, W., *see* Gancher, S.
Kroll, D. A., Knight, P. R.: Antifibrillatory Effects of Volatile Anesthetics in Acute Occlusion/Reperfusion Arrhythmias, 657
Kroll, D. A., Morris, M. D., Norton, M. L.: Hazards of Laser Degradation of Methylmethacrylate, 115
Kulkarni, P. S., *see* Bruce, D. L.
Kundomal, Y., *see* Brodsky, J. B.

L

Lagade, M. R. G., Poppers, P. J.: Stellate Ganglion Block: A Therapeutic Modality for Arterial Insufficiency of the Arm in Premature Infants, 203
Lagerkranser, M., *see* Sollevi, A.
LaMantia, K. R., Glick, J. H., Marshall, B. E.: Reply, 226
Larson, C. E., *see* Chang, J.-L.
Larson, C. P., Jr.: Use of Spinal Anesthesia in Patients with Idiopathic Hypertrophic Subaortic Stenosis, 229
Lau, S.-S., *see* Conklin, K. A.
Laughlin, S., *see* Shah, K. B.
Lawson, D., *see* Kopman, A. F.
Laxer, K. D., *see* Gancher, S.
Lear, E., *see* Thiagarajah, S.
Leonard, P. F., *see* Warner, M. E.
Lerman, J., Gregory, G. A., Willis, M. M., Eger, E. I., II: Age and Solubility of Volatile Anesthetics in Blood, 159
Lerman, J.: Is Nothing Certain with Small Sample Sizes, 219
Lessard, L., *see* Bourke, D. L.
LeTard, F. X., *see* Diaz, J. H.
Lillie, P. E., Glynn, C. J., Fenwick, D. G.: Site of Action of Intravenous Regional Anesthesia, 507
Lilly, D. J., *see* Samra, S. K.
Limjoco, R. A., *see* Greenblatt, D. J.
Lind, R. C., Gandolfi, A. J., Sipes, I. G., Brown, B. R., Jr.: The Involvement of Endotoxin in Halothane-associated Liver Injury, 544

Lindquist, C., *see* Sollevi, A.
Lindsey, R. L.: A Simple Solution for Determining Shunt Flow during Carotid Endarterectomy, 215
Linnberry, C. G., *see* Ramsey, F. M.
Liu, L. M. P., Liu, P. L., Moss, J.: Severe Histamine-mediated Reaction to Rectally Administered Methohexitol, 95
Liu, P. L., *see* Liu, L. M. P.
Lo, J. N., Buckley, J. J., Kim, T. H., Lopez, R.: Anesthesia for High-dose Total Body Irradiation in Children, 101
Lobes, L., *see* Chang, J.-L.
Locniskar, A., *see* Greenblatt, D. J.
Loesevitz, A., *see* Russ, W.
Lomessy, A., Magnin, C., Viale, J.-P., Motin, J., Cohen, R.: Clinical Advantages of Fentanyl Given Epidurally for Postoperative Analgesia, 466
Long, D. L., *see* Toung, T.
Longnecker, D. E.: Stress Free: To Be or Not to Be, 643
Longnecker, D. E., *see* Arnold, W. P.
Longnecker, D. E., *see* Seyde, W. C.
Loomis, J. C., *see* Sorbo, S.
Lopez, R., *see* Lo, J. N.
Luich, R. J.: Reply, 222
Lunn, J. J., Rorie, D. K.: Halothane-induced Changes in the Release and Disposition of Norepinephrine at Adrenergic Nerve Endings in Dog Saphenous Vein, 377
Lynch, C., III: Are Volatile Anesthetics Really Calcium Entry Blockers, 644
Lyons, T. E.: A Simplified Method of CPAP Delivery to the Nonventilated Lung during Unilateral Pulmonary Ventilation, 216
Lytle, B., *see* Zurick, A. M.

M

Magnin, C., *see* Lomessy, A.
Mahomed, Y., Moorthy, S. S., Brown, J. W., King, R. D.: ECG Changes with Papaverine Injection into Coronary Artery Bypass Grafts, 350
Manchikanti, L., Marrero, T. C., Roush, J. R.: Preanesthetic Cimetidine and Metoclopramide for Acid Aspiration Prophylaxis in Elective Surgery, 48
Maneksha, F. R., Betta, J., Zawin, M., Poppers, P. J.: Intraoperative Hypoxia and Hypotension Caused by Gastrografin-induced Hypovolemia, 454
Mans, A. M., *see* Davis, D. W.
Mark, L. C.: The "Puff Technic" for Intravenous Diazepam, 630
Marrero, T. C., *see* Manchikanti, L.
Marron, G. M., *see* Aldrete, J. A.
Marshall, K. E.: Did Anesthetic Mismanagement Contribute to Intraoperative Death, III, 792
Marshall, B. E., *see* Berry, A. J.
Marshall, B. E., *see* LaMantia, K. R.
Marshall, C., *see* Berry, A. J.
Maruta, H., *see* Asari, H.

Maruyama, Y., *see* Shimoji, K.

Marx, G. F.: Reply, 218

Maseda, J., *see* Hilberman, M.

Mashimo, T., Tashiro, Chikara, Yoshiya, I.: Effects of Volatile Anesthetics on Light-induced Proton Uptake of Rhodopsin in Bovine Rod Outer Segment Disk Membrane, 439

Mather, L. E., *see* Cousins, M. J.

Mathews, W. S., Mote, P. S.: The Topical Use of Sodium Nitroprusside for Relief of Intraoperative Arterial Spasm, 776

Matsumiya, N., *see* Dohi, S.

Matsuura, H., *see* Goromaru, T.

McCammon, R. L., Stoelting, R. K.: Exaggerated Increase in Serum Potassium Following Succinylcholine in Dogs with Beta Blockade, 723

McDonald, J. S., *see* Dehring, D. J.

McDonald, J. S., *see* Goldman, E.

McKenzie, R., *see* Boucek, C. D.

McLean, W. C., *see* Stone, D. J.

McPherson, R. W., North, R. B., Udarhelyi, G. B., Rosenbaum, A. E.: Migrating Disc Complicating Spinal Decompression in an Achondroplastic Dwarf: Intraoperative Demonstration of Spinal Cord Compression by Somatosensory Evoked Potentials, 764

McPherson, R. W., Szymanski, J., Rogers, M. C.: Somatosensory Evoked Potential Changes in Position-related Brain Stem Ischemia, 88

Meyer, R. M.: A Case for Monitoring Oxygen in the Expiratory Limb of the Circle, 347

Mikat, M., *see* Arndt, J. O.

Miletich, D. J., *see* Barrera, M.

Miller, D. C., *see* Hilberman, M.

Miller, E. D., Jr.: Renal Effects of Dopamine, 487

Miller, R. D., Rupp, S. M., Fisher, D. M., Cronnelly, R., Fahey, M. R., Sohn, Y. J.: Clinical Pharmacology of Vecuronium and Atracurium, 444

Miller, R. D., *see* Fahey, M. R.

Miller, R. D., *see* Fisher, D. M.

Miller, R. D., *see* Fisher, D. M.

Miller, R. D., *see* Hennis, P. J.

Mills, S. A., *see* Johnston, W. E.

Mitchell, R. L., *see* Bagshaw, R. J.

Miyao, J., *see* Goromaru, T.

Miyawaki, T., *see* Goromaru, T.

Mogensen, T., *see* Hasselstrom, L. J.

Molteni, A., *see* Fragn, R. J.

Montembault, C., *see* Clergue, F.

Moore, D. C.: Bupivacaine Toxicity and Bier Block: The Drug, the Technique, or the Anesthetist, 782

Moore, D. C.: Monitoring Respirations with a Gauze Thread: An Ancient and Outdated Technique, 623

Moore, D. C., Batra, M. S.: Reply, 345

Moorthy, S. S., *see* Mahomed, Y.

Morel, D., *see* Forster, A.

Morel, D., *see* Gamulin, Z.

Morris, A. L.: Guidelines for Randomized Trials to Determine Incidence of Perioperative myocardial Infarction, 213

Morris, M. D., *see* Kroll, D. A.

Moss, J., *see* Liu, L. M. P.

Mote, P. S., *see* Mathews, W. S.

Motin, J., *see* Lomessy, A.

Movilia, P., *see* Restelli, L.

Muldoon, S., *see* Blanck, T. J. J.

Murad, F., *see* Pearl, R. G.

Muravchick, S.: Effect of Age and Premedication on Thiopental Sleep Dose, 333

Mutch, A. C., *see* Thomson, I. R.

Myers, B. D., *see* Hilberman, M.

Myers, J. A., *see* Coyle, D. E.

N

Naito, H., *see* Dohi, S.

Nargozian, C. D., *see* Hard, C.

Nelson, T. E., *see* Flewellen, E. H.

Neuman, G. G., *see* Wollman, S. B.

Ngeow, Y. K., *see* Toung, T.

Nguyen, N., *see* Durant, N. N.

Noble, W. H., Kay, J. C.: Lung Water Increases with Fluid Administration during CPPV after Pulmonary Microembolization, 703

Noel, T. A., II: Pulmonary Artery Catheter Sheath Malfunction with Sternotomy, 633

Norfleet, E. A., *see* Kates, R. A.

Norman, P., *see* Gibbs, C. P.

North, R. B., *see* McPherson, R. W.

Norton, M. L., *see* Bolder, P. M.

Norton, M. L., *see* Kroll, D. A.

O

O'Connor, R. D., *see* Dueck, R.

Oei-Lim, V., *see* Bovill, J. G.

Olewine, S. K., *see* Kapur, P. A.

Osborn, J. L., *see* Seagard, J. L.

Oyer, P. E., *see* Hilberman, M.

P

Palayiwa, E., Evans, J. M.: Some Practical Considerations in the Use of the Engstrom EMMA Analyzer, 112

Palmisano, B. W., Fisher, D. M., Willis, M., Gregory, G. A., Ebert, P. A.: The Effect of Paralysis on Oxygen Consumption in Normoxic Children after Cardiac Surgery, 518

Parasher, C., *see* Arndt, J. O.

Parker, E. O., III: Electrosurgical Burn at the Site of an Esophageal Temperature Probe, 93

Paulus, D. A., *see* Brooks, T. D.

Peacock, J. E., *see* Johnston, W. E.

Pearce, A. C., Jones, R. M.: Smoking and Anesthesia: Preoperative Abstinence and Perioperative Morbidity, 576

Pearl, R. G., Rosenthal, M. H., Murad, F., Ashton, J. P. A.: Aminophylline Potentiates Sodium Nitroprusside-induced Hypotension in the Dog, 712

Pedemonte, M. S., *see* Shah, J.

Perkins, N. A. K., Cail, W. S., Bedford, R. F., Elinger, J. H., Buschi, A. J.: Internal Jugular Vein Function after Swan-Ganz® Catheterization, 456

Personne, C., *see* Youch'h, G.

Peterson, G. N., *see* Rooke, G. A.

Pfisterer, M., *see* Skarvan, K.

Phillips, L., *see* Weinberg, S.

Poppers, P. J., *see* Lagade, M. R. G.

Poppers, P. J., *see* Manecksha, F. R.

Poulton, T. J., Ellington, R. J.: Seizure Associated with Induction of Anesthesia with Isoflurane, 471

Prough, D. S., *see* Johnston, W. E.

Prough, D. S., *see* Royster, R. L.

R

Ramsey, F. M., White, P. A., Stullken, E. H., Lineberry, C. G., Allen, L. L.: Clinical Use of Atracurium during N_2O/O_2 , Fentanyl, and N_2O/O_2 , Enflurane Anesthesia Regimens, 328

Rao, T. L. K.: Reply, 214

Rao, T. L. K., *see* Shah, K. B.

Rapaport, S. I., *see* Schulman, D. S.

Rathbun, M., *see* Dueck, R.

Redon, D., *see* Avery, P.

Reivich, M., *see* Young, M. L.

Restelli, L., Movilia, P., Bossi, L., Caiironi, C.: Management of Pain after Thoracotomy: A Technique of Multiple Intercostal Nerve Blocks, 353

Reves, J. G.: The Relative Hemodynamic Effects of Ca^{++} Entry Blockers, 3

Riddle, R. T.: Reply, 635

Rockoff, M. A., *see* Schwartz, L.

Roerig, D. L., *see* Kotrl, K. J.

Rogers, M. C., *see* Backofen, J. E.

Rogers, M. C., *see* McPherson, R. W.

Rogers, M. C., *see* Toung, T.

Rolbin, S. H., *see* Gibbs, C. P.

Rooke, G. A., Peterson, G. N., Faulhaber, J. A., Buffington, C. W.: Were Differences in Reinfarction Rates due to Differences in Populations, 213

Rooney, S.-M., *see* Goldiner, P. L.

Rorie, D. K., *see* Lunn, J. J.

Rosenbaum, A. E., *see* McPherson, R. W.

Rosenberg, M., *see* Bourke, D. L.

Rosenthal, M. H., *see* Pearl, R. G.

Rouge, J.-Cl., *see* Forster, A.

Roush, J. R., *see* Manchikanti, L.

Routman, M., *see* Boyce, J. R.

Rowlingson, J. C., *see* Korbon, G. A.

Roy R.: Cardiovascular Effects of Ketamine Given to Relieve Penile Turgescence after High Doses of Fentanyl, 610

Roy, R. C.: Does Isoflurane Really Preserve Baroreflex Responsiveness Better than Halothane or Enflurane, 482

Royster, R. L., Johnson, J. C., Prough, D. S., Johnston, W. E., Beamer, W. C.: Differences in Pulmonary Artery Wedge Pres-

AUTHOR INDEX TO VOLUME 61

sures Obtained by Balloon Inflation *versus* Impaction Techniques, 339
Royster, R. L., *see* Johnston, W. E.
Ruhland, G., *see* Hinkle, A. J.
Rupp, S. M., *see* Fahey, M. R.
Rupp, S. M., *see* Miller, R. D.
Rush, N. L., *see* Samra, S. K.
Russ, W., Kling, D., Loesevitz, A., Hempelmann, G.: Effect of Hypothermia on Visual Evoked Potentials (VEP) in Humans, 207
Rusy, B., *see* Avery, P.

S

Salzer, J., *see* Thiagarajah, S.
Sameshima, T., *see* Goromaru, T.
Samra, S. K., Lilly, D. J., Rush, N. L., Kirsh, M. M.: Fentanyl Anesthesia and Human Brain-stem Auditory Evoked Potentials, 261
Sandler, A. N., *see* Shulman, M.
Santesson, J., *see* Hedenstierna, G.
Sarnat, A. J.: A Simple Device for Testing Peripheral Nerve Stimulators, 624
Sarnat, A. J., *see* Scheller, M. S.
Satwicz, P. R., *see* DiNardo, J. A.
Schaenzer, G., *see* Avery, P.
Schauble, J. F., *see* Backofen, J. E.
Scheller, M. S., Sarnat, A. J., Astarita, R. W.: Unintentional Removal of Meningeal Tissue with a 25-Gauge Spinal Needle during Spinal Anesthesia: A Case Report, 593
Schulman, D. S., Kaufman, J. J., Eisenstein, M. M., Rapoport, S. I.: Blood pH and Brain Uptake of ¹⁴C-Morphine, 540
Schüttler, J., White, P. F.: Optimization of the Radioimmunoassays for Measuring Fentanyl and Alfentanil in Human Serum, 315
Schwartz, L., Rockoff, M. A., Koka, B. V.: Masseter Spasm with Anesthesia: Incidence and Implications, 772
Seagard, J. L.: Reply, 480
Seagard, J. L., Hopp, F. A., Bosnjak, Z. J., Osborn, J. L., Kampine, J. P.: Sympathetic Efferent Nerve Activity in Conscious and Isoflurane-anesthetized Dogs, 266
Sebel, P. S., *see* Bovill, J. G.
Sebel, P. S., *see* Bovill, J. G.
Serra, M., *see* Brodsky, J. B.
Seyde, W. C., Longnecker, D. E.: Anesthetic Influences on Regional Hemodynamics in Normal and Hemorrhaged Rats, 686
Shader, R. I., *see* Greenblatt, D. J.
Shah, J., Pedemonte, M. S., Wilcock, M. M.: Hydrogen Peroxide May Cause Venous Oxygen Embolism, 631
Shah, K. B., Rao, T. L. K., Laughlin, S., El-Etr, A. A.: A Review of Pulmonary Artery Catheterization in 6,245 Patients, 271
Shalev, D., *see* Shapiro, L. A.
Shanks, C. A., *see* Fragen, R. J.
Shapiro, L. A., Jedeikin, R. J., Shalev, D., Hoffman, S.: Epidural Morphine Analgesia in Children, 210

Sharma, M., *see* Fahey, M. R.
Sharma, M., *see* Hennis, P. J.
Sharma, Manohar, *see* Fisher, D. M.
Shaw, L. M., *see* Gross, J. B.
Shimada, Y., Yoshiya, I., Hirata, T., Takezawa, J., Taenaka, N.: Evaluation of a System for On-line Analysis of \dot{V}_{CO_2} and \dot{V}_{CO_2} for Clinical Applicability, 311
Shimoji, K., Fujioka, H., Fukazawa, T., Hashiba, M., Maruyama, Y.: Anesthetics and Excitatory/Inhibitory Responses of Mid-brain Reticular Neurons, 151
Shulman, M., Sandler, A. N., Bradley, J. W., Young, P. S., Brebner, J.: Postthoracotomy Pain and Pulmonary Function Following Epidural and Systemic Morphine, 569
Siegel, M., Coleprate, P.: Complication of Fiberoptic Bronchoscope, 214
Sievenpiper, T. S., Fallacaro, M. D.: Did Anesthetic Mismangement Contribute to Intraoperative Death? II, 791
Simonet, F., *see* Gamulin, Z.
Sipes, I. G., *see* Lind, R. C.
Sison, O. S., *see* Wilson, R. F.
Sjostrand, U. H., *see* Bunegin, L.
Skarvan, K., Graedel, E., Hasse, J., Stulz, P., Pisterer, M.: Coronary Artery Spasms after Coronary Artery Bypass Surgery, 323
Smith, B. A. C., *see* Bourke, D. L.
Smith, D. S., *see* Bagshaw, R. J.
Smith, D. S., *see* Young, M. L.
Smith, L. R., *see* Gelman, S.
Smith, R. B., *see* Bunegin, L.
Smith, T. C.: The Environment, Carbon Dioxide, and the *Milieu Intérieur*, 628
Söderborg, B., *see* Hedenstierna, G.
Sohn, Y. J., *see* Miller, R. D.
Sokoloff, L., *see* Crosby, G.
Sollevi, A., Lagerkranser, M., Iredestad, L., Gordon, E., Lindquist, C.: Controlled Hypotension with Adenosine in Cerebral Aneurysm Surgery, 400
Sorbo, S., Hudson, R. J., Loomis, J. C.: The Pharmacokinetics of Thiopental in Pediatric Surgical Patients, 666
Spaulding, B. C., Choi, S. D., Gross, J. B., Apfelbaum, J. L., Broderson, H.: The Effect of Physostigmine on Diazepam-induced Ventilatory Depression: A Double-blind Study, 551
Spencer, R. J., *see* Hilberman, M.
Stanley, T. H., *see* Bovill, J. G.
Stanski, D. R., *see* Hug, C. C. Jr.,
Starr, N. J., *see* Zurick, A. M.
Stedman, P. M., *see* Diaz, J. H.
Steiger, Z., *see* Wilson, R. F.
Sternick, C. S., Stirt, J. A.: Avoiding Sticky Situations, 113
Sternick, C. S., Stirt, J. A.: Blood is Thicker than Water (or CSF), 348
Stinson, E. B., *see* Hilberman, M.
Stirt, J. A., *see* Sternick, C. S.
Stirt, J. A., *see* Stone, D. J.
Stoebling, R. K., *see* McCammon, R. L.

Stone, D. J., Stirt, J. A., Kaplan, M. J., McLean, W. C.: A Complication of Lightwand-guided Nasotracheal Intubation, 780
Stowe, D. F., Bosnjak, Z. J., Kampine, J. P.: Halothane Diminishes Changes in Cardiac Fiber Action Potential Duration Induced by Hypocarbia and Hypercarbia, 245
Stuilkorn, E. H., *see* Ramsey, F. M.
Stulz, P., *see* Skarvan, K.
Szymanski, J., *see* McPherson, R. W.

T

Taenaka, N., *see* Shimada, Y.
Takeshima, R., *see* Dohi, S.
Takezawa, J., *see* Shimada, Y.
Talafre, M.-L., *see* Cohen, S. E.
Tashiro, Chikara, *see* Mashimo, T.
Thiagarajah, S., Lear, E., Azar, I., Salzer, J., Zeilisohn, E.: Bronchospasm Following Interscalene Brachial Plexus Block, 759
Thiagarajah, S., *see* Azar, I.
Thompson, G. A., *see* Coyle, D. E.
Thompson, M., *see* Blanck, T. J. J.
Thomson, I. R., Mutch, A. C., Culligan, J. D.: Failure of Intravenous Nitroglycerin to Prevent Intraoperative Myocardial Ischemia during Fentanyl-Pancuronium Anesthesia, 385
Timker, J. H., *see* From, R.
Todd, M. M., Drummond, J. C.: Reply, 787
Todd, M. M., Drummond, J. C., U. H. S.: The Hemodynamic Consequences of High-dose Methohexitol Anesthesia in Humans, 495
Toty, L., *see* Vourc'h, G.
Toung, T., Ngeow, Y. K., Long, D. L., Rogers, M. C., Traystman, R. J.: Comparison of the Effects of Positive end-expiratory Pressure and Jugular Venous Compression on Canine Cerebral Venous Pressure, 169
Traystman, R. J., *see* Toung, T.
Twersky, R., *see* Weinberg, S.
Tyler, I. L., *see* Boucek, C. D.

U

U. H. S., *see* Todd, M. M.
Udvarhelyi, G. B., *see* McPherson, R. W.

V

Viale, J.-P., *see* Lomessy, A.
Viars, P., *see* Clergue, F.
Viars, P., *see* Coriat, P.
Vourc'h, G., Fischler, M., Personne, C., Colchen, A., Toty, L.: Anesthetic Management during Nd-YAG Laser Resection for Major Tracheobronchial Obstructing Tumors, 636
Vucins, E. J., *see* Kotly, K. J.

W

Wagner, R. H., *see* Zurick, A. M.
Wagner, R. L., White, P. F.: Etomidate In-

hibits Adrenocortical Function in Surgical Patients, 647

Wangler, M. A., Weaver, J. M.: A Method to Facilitate Fiberoptic Laryngoscopy, 111

Ward, D. S.: Does Almitrine Restore Halothane-induced Depression of Hypoxic Respiratory Drive, 627

Warner, M. A., *see* Warner, M. E.

Warner, M. E., Warner, M. A., Leonard, P. F.: Reply, 637

Warshauer, A. D.: Is Bright Room Light Related to Retrolental Fibroplasia, 785

Watson, C. B., *see* Jones, D. E.

Waud, B. E., Waud, D. R.: Quantitative Examination of the Interaction of Competitive Neuromuscular Blocking Agents on the Indirectly Elicited Muscle Twitch, 420

Waud, D. R., *see* Waud, B. E.

Weaver, J. M., *see* Wangler, M. A.

Weber, S.: Observations Made in the Adductor Pollicis May Not Be Applicable to Other Muscle Groups, 353

Weinberg, S., Phillips, L., Twersky, R., Cottrell, J. E., Braunstein, K. M.: Hypercoagulability in a Patient with a Brain Tumor, 200

Weiss, V., *see* Forster, A.

Welch, W. D.: Effect of Enflurane, Isoflurane, and Nitrous Oxide on the Microbicidal Activity of Human Polymorphonuclear Leukocytes, 188

Wever, J., *see* Damen, J.

White, P. A., *see* Ramsey, F. M.

White, P. F. Reply, 224

White, P. F., *see* Schüttler, J.

White, P. F., *see* Wagner, R. L.

Wilcock, M. M., *see* Shah, J.

Williams, R. T.: Comments from an Experienced User of the Airway Intubator, 108

Willis, M., *see* Palmisano, B. W.

Willis, M. M., *see* Lerman, J.

Willis, R. J., *see* Gourlay, G. K.

Wilson, P. R., *see* Gourlay, G. K.

Wilson, R. F., Steiger, Z., Jacobs, J., Sison, O. S., Holsey, C.: Temporary Partial Cardiopulmonary Bypass during Emergency Operative Management of Near Total Tracheal Occlusion, 103

Winkle, W. E., *see* Brooks, T. D.

Wollman, S. B., Neuman, G. G.: Retinal Surgery in the Prone Position: An Inexpensive Simple Headrest, 109

Woodward, W. R., *see* Hermens, J. M.

Worthen, M., *see* Beeby, D. G.

Wright, A. J., *see* Aldrete, J. A.

Wu, W.-H., *see* Berry, A. J.

Y

Yoshimura, N., *see* Goromaru, T.

Yoshiya, I., *see* Mashimo, T.

Yoshiya, I., *see* Shimada, Y.

Young, M. L., Smith, D. S., Greenberg, J., Reich, M., Harp, J. R.: Effects of Sufentanil on Regional Cerebral Glucose Utilization in Rats, 564

Young, M. L., *see* Bagshaw, R. J.

Young, P. S., *see* Shulman, M.

Z

Zaggy, A. P., *see* Kates, R. A.

Zawin, M., *see* Maneksha, F. R.

Zbuzek, V. M., *see* Berry, A. J.

Zeilingsohn, E., *see* Thiagarajah, S.

Ziadourad, F., *see* Conklin, K. A.

Zurick, A. M., Wagner, R. H., Starr, N. J., Lytle, B., Estafanous, F. G.: Intravenous Nitroglycerin, Methemoglobinemia, and Respiratory Distress in a Postoperative Cardiac Surgical Patient, 464

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION
(Required by 39 U.S.C. 3685)

Date of Filing—October 1, 1984

Title of Publication—Anesthesiology

Publication No. 025600

Frequency of Issue—13 Issues per year

Subscription Price—\$20.00

Location of Known Office of Publication—2350 Virginia Ave., Hagerstown, MD 21740

Location of the Headquarters of General Business Offices of the Publishers—East Washington Square, Philadelphia, PA 19105

Publisher—American Society of Anesthesiologists, Inc., East Washington Square, Philadelphia, PA 19105

Editor—John D. Michenfelder, M.D., Department of Anesthesiology, Mayo Clinic, Rochester, MN 55905

Managing Editor—Deborah G. Huey, East Washington Square, Philadelphia, PA 19105

Owner—American Society of Anesthesiologists, Inc., 515 Busse Highway, Park Ridge, IL 60068

Known Bondholders, Mortgagors and other Security Holders Owning or Holding 1 Percent or more of total amount of bonds, mortgages or other securities—None

The Purpose, Function, and Nonprofit Status of this organization and the exempt status for Federal income tax purposes—Has not changed during preceding 12 months

	Average No. Copies Each Issue during Preceding 12 Months	Actual No. of Copies of Single Issues Published Nearest to Filing Date
A. Total no. copies printed (<i>net press run</i>)	33,365	33,900
B. Paid circulation	—	—
1. Sales through dealers and carriers, street vendors, and counter sales	30,704	30,897
2. Mail Subscription	30,704	30,897
C. Total paid circulation	257	238
D. Free distribution by mail, carrier or other means. Samples, complimentary, and other free copies	—	—
E. Total distribution (<i>sum of C and D</i>)	30,961	31,135
F. Copies not distributed	—	—
1. Office use, left over, unaccounted, spoiled after printing	2,404	2,765
2. Return from news agents	—	—
G. Total (<i>sum of E & F—should equal net press run shown in A</i>)	33,365	33,900

I certify that the statements made by me above are correct and complete.

Joseph W. Lippincott III, Associate Publisher

